C 6485-9

PennWell Books / OIL & GAS JOURNAL
PennWell Publishing Company
ENERGY DATABASE

1987 Energy Statistics Sourcebook

Publisher
Published in October, 1987, by PennWell Publishing Company, publishers of the *Oil & Gas Journal; Offshore Magazine; Oil, Gas & Petrochem Equipment; Ocean Oil Weekly Report; Electronic Rig Stats; Capital Energy Letter*

PennWell Petroleum Directories

- U.S.A. Oil Industry*
- U.S.A. Oilfield Service, Supply and Manufacturers
- Worldwide Offshore Contractors and Equipment
- Worldwide Petrochemical
- Worldwide Refining & Gas Processing
- Petroleum Software
- European Petroleum
- Asia-Pacific/Africa-Middle East Petroleum

For additional information about PennWell Directories, or if you would like to order a copy for a 15 day inspection, write to:

PennWell Directories
PennWell Publishing Company
Box 1260
Tulsa, OK 74101
Phone: 918-835-3161
Telex: 211012

For additional information about the
Oil & Gas Journal Energy Database, call
Phone: (918) 835-3161, Ext. 346
Telex: 203604

ISSN 0889-5260

Copyright © 1987 by PennWell Publishing Company
All rights reserved. This directory or any part thereof may not be reproduced, stored in a retrieval system, or transcribed in any form or by any means, electronic or mechanical, including photocopying and recording, without the prior written permission of the publisher.

Printed in the United States of America

1987 Energy Statistics Sourcebook Available on Diskettes

In order to assist industry analysts the Oil & Gas Journal Energy Database is making the tables from this edition of the Energy Statistics Sourcebook available on diskettes for use with IBM or compatible personal computers.

Since many analysts will want to use the data from the Sourcebook in spreadsheets or other PC software, we are offering these diskettes as an alternative to tedious, time-consuming manual data entry. By purchasing the data in Lotus 1-2-3 (TM) worksheets, it can be readily accessed and used for analysis. Tables can be purchased individually, by the chapter, or for the entire publication. A separate grouping of all of the tables containing international data is also available.

Individual tables -- $15/each, minimum order $75 (5 tables)

Chapters:

Exploration & Drilling	$275
Production	$125
Reserves	$125
Refining	$250
Stocks	$125
Imports & Exports	$250
Demand	$250
Natural Gas	$150
Price	$275
Revenues & Expenditures	$ 75
Offshore	$150
Transportation	$ 75
Energy	$175
Other	$ 75

Tables for entire 1987 Sourcebook $1,195

Tables covering all international data from 1987 Sourcebook $375

The data are stored in tables as they appear in the Sourcebook. Tables which cover several pages in the Sourcebook are included in a single file on the diskette. All tables are stored in Lotus 1-2-3 (TM) Version 2 worksheets on 5 1/4" DS,DD diskettes. Tables can be provided in Lotus Version 1A or Symphony for an extra $25 per chapter or order of individual tables, or an extra $100 for the entire Sourcebook. When ordering, please specify if you want Lotus 1A or Symphony. Otherwise Lotus Version 2 will be assumed. Purchasers must have their own copy of Lotus 1-2-3 or Symonony to use these data diskettes.

All worksheets will contain exactly the data printed in the Sourcebook -- the data will not be updated. Data to update individual tables is available from the Oil & Gas Journal Energy Database. Price quotes for updating data are available by calling Oil & Gas Journal Energy Database at (918) 835-3161, ext. 346. If monitoring Key Energy Indicators on a monthly basis is of interest, Oil & Gas Journal Energy Database provides a monthly diskette service -- please see page 442.

To order tables from the 1987 Energy Statistics Sourcebook, send a check (payable to Oil & Gas Journal Energy Database) to Oil & Gas Journal Energy Database, P.O. Box 1260, Tulsa, OK, 74101, U.S.A. Or call (918) 835-3161, ext. 346 for more information.

Table of Contents

Exploration and Drilling Page 13

Active Drilling Rigs, Total U.S., Monthly, 16
Active Drilling Rigs, By State, Annual, 18
Active Drilling Rigs, Selected States, Monthly, 23
Active Drilling Rigs, By Depth Classifications, Monthly, 24
Reed Rig Census, Annual, 26
Active Seismic Crew Count, Total U.S., Monthly, 27
Seismic Crew Months Worked, By State, Annual, 28
Well Servicing Rigs, Available & Working, Total U.S., Monthly, 30
Well Permit Applications, Selected States, Monthly, 31
Total Acreage Under Lease, By State, Annual, 32
Well Completions, By Type, Total U.S., Annual, 35
Well Completions, As Completed, By State, Annual, 36
Footage Drilled, As Completed, By State, Annual, 40
Exploratory Well Completions, As Completed, By State, Annual, 44
Well Completions & Foctage, As Completed, By Type, Total U.S., Monthly, 48
Exploratory Well Completions & Footage, As Completed, By Type, Total U.S., Monthly, 53
Well Completions by Depth Interval, As Completed, Total U.S., Annual, 58
Joint Association Survey on Drilling Costs, Total U.S., Annual, 60
Average Drilling Cost Per Well, By State, Annual, 62
Average Drilling Cost Per Foot, By State, Annual, 64
Indexed Cost of Drilling & Equipping a Well, By Component, Total U.S. Annual, 66
International Active Drilling Rigs, By Country, Annual, 68
Active Drilling Rigs, Non-Communist, Monthly, 70
Active Drilling Rigs, Canada, Monthly, 71
International Active Seismic Crews, By Area, Annual, 72
Active Seismic Crews, Canada, Monthly, 73
Total Non-Communist Well Completions, By Region, Annual, 74
Exploratory Non-Communist Well Completions, By Region, Annual, 75

Production Page 77

Crude Oil Production, Total U.S., Annual, 80
Crude Oil Production, Total U.S., Monthly, 81
Natural Gas Liquids Production, Total U.S., Monthly, 82
Total Liquids Production, Total U.S., Monthly, 83
Crude Oil Production, By State, Annual, 85
Crude Oil Production from Stripper Wells, By State, Annual, 90
Percent of Crude Oil Production from Stripper Wells, By State, Annual, 91
Worldwide Crude Oil Production, By Country, Annual, 94
Crude Oil Production, OPEC, Non-Communist & World, Monthly, 98
Worldwide Producing Oil Wells, By Country, Annual, 100
Installed Productive Capacity, OPEC & Non-Communist, Annual, 103
OPEC Installed Productive Capacity, By Country, Annual, 104

Reserves Page 105

Crude Oil Reserves, Changes & Additions, Total U.S. Annual, 109
Crude Oil Reserves, By State, Annual, 110
Natural Gas Liquids Reserves, Changes & Additions, Total U.S., Annual, 113
Natural Gas Liquids Reserves, By State, Annual, 114
Natural Gas Reserves, Changes & Additions, Total U.S., Annual, 116
Natural Gas Reserves, By State, Annual, 117
Crude Oil Reserves, By Country, Annual, 120
Natural Gas Reserves, By Country, Annual, 130

Table of Contents (Continued)

Refining Page 137

Refinery Capacity & Input, Total U.S., Annual, 141
Operable Capacity & Utilization, Total U.S., Monthly, 142
Crude Oil Input to Refineries, Total U.S, Monthly, 143
Total Input to Refineries, Total U.S., Monthly, 144
Refinery Processing Gain, Total U.S., Monthly, 145
Average Percentage Product Yields, Total U.S., Annual, 146
Total Refinery Production (Output), Total U.S., Monthly, 147
Motor Gasoline Production, Total U.S., Monthly, 148
Motor Gasoline Production, By Type, Total U.S., Monthly, 149
Jet Naphtha Production, Total U.S., Monthly, 150
Jet Kerosine Production, Total U.S., Monthly, 151
Kerosine Production, Total U.S., Monthly, 152
Distillate Fuel Oil Production, Total U.S., Monthly, 153
Residual Fuel Oil Production, Total U.S., Monthly, 154
Liquified Petroleum Gases Production, Total U.S., Monthly, 155
Refinery Margins, U.S. Gulf Coast, Monthly, Quarterly, Annual, 157
Nelson Refinery Operating Index, Annual, 158
Nelson Refinery Operating Index, Monthly, 159
Nelson Refinery Construction Index, Annual, 161
Nelson Refinery Construction Index, Monthly, 162
Worldwide Crude Oil Refinery Runs, By Region, Annual, 164
Worldwide Refinery Utilization Rate, By Region, Annual, 165
Refining Capacity, By Continent, Annual, 167
Refining Capacity, By Country, Annual, 168
Volume of Refined Products Produced, OPEC, Annual, 174

Stocks Page 175

Crude Oil Stocks, Total U.S., Monthly, 179
SPR Crude Oil Stocks, Total U.S., Monthly, 180
Total Refined Product Stocks, Total U.S., Monthly, 181
Motor Gasoline Stocks, Total U.S., Monthly, 183
Motor Gasoline Stocks, By Type, Total U.S., Monthly, 184
Jet Naphtha Stocks, Total U.S., Monthly, 185
Jet Kerosine Stocks, Total U.S., Monthly, 186
Kerosine Stocks, Total U.S., Monthly, 187
Distillate Fuel Oil Stocks, Total U.S., Monthly, 188
Residual Fuel Oil Stocks, Total U.S., Monthly, 189
Liquified Petroleum Gases & Ethane Stocks, Total U.S., Monthly, 190
Total Petroleum Stocks, By OECD Country, Annual, 191
Crude Oil and Refined Products Stocks, Total OECD, Quarterly, 193

Imports and Exports Page 195

Crude Oil Imports, Total U.S., Monthly, 199
SPR Crude Oil Imports, Total U.S, Monthly, 200
Total Crude & Products Imports, Total U.S., Monthly, 201
Total Refined Products Imports, Total U.S., Monthly, 202
Total Motor Gasoline Imports, Total U.S., Monthly, 203
Jet Naphtha Imports, Total U.S., Monthly, 204
Jet Kerosine Imports, Total U.S., Monthly, 205
Kerosine Imports, Total U.S., Monthly, 206
Distillate Fuel Oil Imports, Total U.S., Monthly, 207
Residual Fuel Oil Imports, Total U.S., Monthly, 208
Liquified Petroleum Gases & Ethane Imports, Total U.S., Monthly, 209
Crude Oil Imports from OPEC Nations, Total U.S, Annual, 210
Refined Product Imports from OPEC Nations, Total U.S., Annual, 211
Crude Oil Imports, By Country of Origin, Total U.S., Annual, 212
Refined Product Imports, By Country of Origin, Total U.S., Annual, 213

Table of Contents (Continued)

Imports and Exports (Continued)

Crude Oil and Refined Product Imports, By OECD Country, Annual, 214
Crude Oil and Refined Product Imports, Total OECD, Quarterly, 215
Crude Oil Exports, Total U.S., Monthly, 216
Refined Product Exports, Total U.S., Monthly, 218
Motor Gasoline Exports, Total U.S., Monthly, 219
Jet Naphtha Exports, Total U.S., Monthly, 220
Jet Kerosine Exports, Total U.S., Monthly, 221
Kerosine Exports, Total U.S., Monthly, 222
Distillate Fuel Oil Exports, Total U.S., Monthly, 223
Residual Fuel Oil Exports, Total U.S., Monthly, 224
Liquified Petroleum Gases & Ethane Exports, Total U.S., Monthly, 225
Crude Oil and Refined Product Exports, By OECD Country, Annual, 226
Crude Oil and Refined Product Exports, Total OECD, Quarterly, 227
OPEC Crude Oil Exports, By Country, Annual, 228
OPEC Refined Products Exports, By Country, Annual, 229
World Trade Movements of Crude & Products, By Region, Annual, 230

Demand and Consumption Page 231

Demand for Products, By Major Product, Total U.S., Annual, 234
Petroleum Products Demand, By Sector, Total U.S., Annual, 237
Demand for All Products, Total U.S., Monthly, 239
Demand for All Products, By PAD District, Monthly, 240
Motor Gasoline Demand, Total U.S., Monthly, 241
Motor Gasoline Demand, By Type, Total U.S., Monthly, 243
Motor Gasoline Demand, By Sector, Total U.S., Annual, 244
Motor Gasoline Sales, By State, Annual, 245
Jet Naphtha Demand, Total U.S., Monthly, 246
Jet Kerosine Demand, Total U.S., Monthly, 247
Kerosine Demand, Total U.S., Monthly, 248
Kerosine Demand, By Sector, Total U.S., Annual, 249
Distillate Fuel Oil Demand, Total U.S., Monthly, 250
Distillate Fuel Oil Demand, By Sector, Total U.S., Annual, 251
Residual Fuel Oil Demand, Total U.S., Monthly, 252
Residual Fuel Oil Demand, By Sector, Total U.S., Annual, 253
Liquified Petroleum Gases & Ethane Demand, Total U.S., Monthly, 254
Liquified Petroleum Gases Demand, By Sector, Total U.S., Annual, 255
Worldwide Crude Oil Consumption, By Country & Region, Annual, 256
Consumption By Major Product Category, By Region, Annual, 258
Consumption of Refined Products, By OECD Country, Quarterly, 260
Consumption of Refined Products, By Sector, Total OECD, Annual, 262
Gasoline Consumption, By OECD Country, Quarterly, 263
Gas Oil/Diesel Oil Consumption, By OECD Country, Quarterly, 264
Heavy Fuel Oil Consumption, By OECD Country, Quarterly, 265
Non-Communist Crude Oil Supply & Demand Balance, Annual, 266

Natural Gas Page 267

Natural Gas Production & Field Usage, Total U.S., Annual, 270
Marketed Natural Gas Production, Total U.S., Annual, 272
Marketed Natural Gas Production, Total U.S., Monthly, 273
Natural Gas Production, By State, Annual, 275
Imports & Exports of Natural Gas, Total U.S, Annual, 278
Imports & Exports of Natural Gas, By Country, Total U.S, Annual, 279
Natural Gas Imports, Total U.S., Monthly, 280
Natural Gas Exports, Total U.S., Monthly, 281
Natural Gas in Underground Storage, Total U.S, Monthly, 282
Consumption of Natural Gas, By Sector, Annual, 284

Table of Contents (Continued)

Natural Gas (Continued)

Consumption of Natural Gas, Total U.S., Monthly, 289
Consumption of Natural Gas, By Sector, Monthly, 290
Natural Gas Consumption, By State, Annual, 294
Worldwide Natural Gas Production, By Country, Annual, 296
Natural Gas Production, Non-Communist & World, Monthly, 298
Worldwide Natural Gas Consumption, By Country & Region, Annual, 299

Price Page 301

Crude Oil Wellhead Price, Total U.S., Annual, 305
Crude Oil Wellhead Price, Total U.S., Monthly, 306
Refiners' Acquisition Cost of Crude Oil, Total U.S., Monthly, 307
Posted Price of West Texas Intermediate, Monthly, 308
Crude Oil Wellhead Price, By State, Annual, 309
Landed Cost of Crude Oil Imports, By Country, Total U.S., Annual, 315
Weighted Average Crude Oil Posted Price, OPEC, Non-OPEC, World, U.S. Imports, Monthly, 316
Posted Prices of Crude Oil, Selected Crude Types, Annual, 317
Posted & Spot Price of Saudi Light Crude Oil, Quarterly, 318
Natural Gas Wellhead Price, Total U.S., Annual, 319
Natural Gas Wellhead Price, Total U.S., Monthly, 320
Price of Imported Natural Gas, Total U.S., Monthly, 321
Natural Gas Wellhead Price, By State, Annual, 322
Natural Gas Price, By Sector, Total U.S., Annual, 324
Price of Natural Gas for Residential Use, By IEA Country, Annual, 325
Leaded Motor Gasoline Price, Total U.S., Monthly, 326
Unleaded Motor Gasoline Price, Total U.S., Monthly, 327
Motor Gasoline Price, By Type, Total U.S., Monthly, 329
Wholesale Product Prices, Distillate, Kerosine, Residual, Total U.S., Monthly, 330
Retail Product Prices, Distillate, Residual, Propane, Total U.S., Monthly, 331
Retail Product Prices, Kerosine, Kerosine-Type Jet Fuel, Total U.S., Monthly, 332
Spot Market Product Prices, N.Y. Harbor, Quarterly, 333
Motor Gasoline and Heating Oil Prices, Current and Constant Dollars, Total U.S., Annual, 334
Motor Gasoline Price, By IEA Country, Annual, 336
Home Heating Oil Price, By IEA Country, Annual, 337
Price of Heavy Fuel Oil for Electric Generation, By IEA Country, Annual, 338
Fossil Fuel Prices, Total U.S., Annual, 339
Cost of Fossil Fuels to Electric Utilities, Total U.S., Monthly, 341
Electricity Prices, By Sector, Total U.S., Annual, 342
Price of Electricity for Residential Use, By IEA Country, Annual, 343

Revenues and Expenditures Page 345

Total Wellhead Revenues & Reinvestment Ratio, Total U.S., Annual, 349
Capital Expenditures Survey, Total U.S., Annual, 350
Value of Petroleum Imports, Current and Constant Dollars, Total U.S., Annual, 351
Severance & Production Taxes Paid, By State, Annual, 352
Value of OPEC Petroleum Exports, By Country, Annual, 354

Offshore Page 355

Active Rigs Offshore, Total U.S., Monthly, 358
Offshore Wells Drilled, As Completed, By State, Annual, 359
Production of Crude Oil & Natural Gas, Offshore vs. Onshore, Total U.S., Annual, 360
Offshore Production of Crude Oil, By State, Annual, 361
Offshore Production of Natural Gas, By State, Annual, 362
Federal Offshore Leasing Activity, Total U.S., Annual, 363
Crude Oil Spills, Federal Waters, Annual, 364

Table of Contents (Continued)

Offshore (Continued)

Blowouts & Spillage, Federal Offshore Oil Wells, Annual, 365
Platform Installations & Removals, Federal Offshore, Annual, 366
Disbursement of Mineral Revenues from Federal Offshore, Total U.S., Annual, 367
Gulf of Mexico Reserves & Reserve Additions, Crude Oil & Natural Gas, Annual, 369
Crude Oil & Natural Gas Production, Offshore vs Onshore, Worldwide, Annual, 370
Offshore Crude Oil Production, By Country, Annual, 372
North Sea Crude Oil Production, Monthly, 274
Offshore Natural Gas Production, By Country, Annual, 375
Offshore Wells Drilled, By Country, Annual, 376

Transportation Page 377

Interstate Pipeline Mileage, Liquids & Natural Gas, Total U.S., Annual, 380
Crude & Products Transported, By Carrier Type, Total U.S., Annual, 381
Non-Communist Pipeline Construction, By Size, Annual, 382
Non-Communist Pipeline Construction, By Type, By Region, Annual, 383
World Tanker Fleet, By Size, Annual, 384

Energy Page 385

Energy Consumption & Efficiency, Total U.S., Annual, 388
Energy Production, By Source, Total U.S., Annual, 389
Energy Production, By Source, Total U.S., Monthly, 390
Energy Consumption, By Source, Total U.S., Annual, 393
Energy Consumption, By Source, Total U.S., Monthly, 394
Energy Consumption, By Sector, Total U.S., Annual, 396
Energy Consumption, By Sector, Total U.S., Monthly, 397
Annual Energy Consumption Growth Rates, By State, Pre- & Post-Embargo, 399
Energy Consumption by Source & Sector, By State, 1985, 400
Installed Electric Nameplate Capacity, By Type, Total U.S., Annual, 401
Electric Power Production, By Source, Total U.S., Annual, 403
Sales of Electricity, By Sector, Total U.S., Annual, 404
Sales of Electricity, By Sector, Total U.S., Monthly, 405
Coal Production, Imports, Exports, Consumption & Stocks, Total U.S., Annual, 407
Nuclear Power Production, Total U.S., Annual, 408
Worldwide Primary Energy Consumption, By Country & Region, Annual, 409
Worldwide Coal Production, By Country, Annual, 411
Worldwide Hydroelectric Power Production, By Country, Annual, 412
Worldwide Nuclear Electric Power Production, By Country, Annual, 413

Other Page 415

Oil & Gas Employment, By Industry Group, Total U.S., Annual, 418
Oil & Gas Extraction & Refining Employees, Total U.S., Monthly, 419
Average Hourly Earnings, By Industry Group, Total U.S., Annual, 420
Industrial Production Index, Total, Oil & Gas, Petroleum Products, Total U.S., Annual, 421
Motor Vehicle Registration & Fuel Consumption, Total U.S., Annual, 422
Vehicle Miles of Travel & Fuel Consumption, Total U.S., Annual, 423

Appendix 1 Page 425

Chronology of Major Events Affecting the Oil & Gas Industry

Table of Contents (Continued)

Appendix 2 Page 428

Glossary of Abbreviations and Terms

Appendix 3 Page 431

OPEC Member Nations
OECD Member Nations
IEA Member Nations

Appendix 4 Page 434

Approximate Converstions Factors
Heat Content of Fuels

Index Page 437

Table of Figures

	Page
U.S. Rig Count & Seismic Crew Count	22
U.S. Well Completions By Type	34
Wellhead Price of Crude & Drilling Costs	59
U.S. Crude Oil Production, Alaska & Lower 48	84
Worldwide Crude Oil Production, OPEC, Other Non-Communist, Communist	93
Non-Communist Excess Productive Capacity	102
Reserves & Reserves/Production Ratio, U.S. Crude Oil	108
Reserves & Reserves/Production Ratio, U.S. Natural Gas	115
Worldwide Crude Oil Reserves, OPEC, Non-Communist, Total World	128
Worldwide Natural Gas Reserves, By Continent	129
U.S. Refinery Capacity & Crude Input	140
Gulf Coast Refinery Margins	156
Non-Communist Refining Capacity	166
U.S. Stocks of Crude & Products	178
Days' Supply, Crude Oil, Motor Gasoline, Distillate, Residual	182
Total OECD Crude & Products Stocks	192
U.S. Imports & Demand	198
U.S. Crude & Product Exports	217
U.S. Domestic Demand, By Major Product	236
Total Demand & Crude Oil Price	238
Motor Gasoline Demand & Price	242
OECD Imports & Total Demand	259
Natural Gas Production, By Major Producing State	274
Natural Gas Imports and Consumption	283
Natural Gas Consumption, By Sector	288
Wellhead Crude Oil & Natural Gas Prices	304
Refiners' Acquisition Cost & Motor Gasoline Price	328
Cost of Fossil Fuels Delivered to Electric Plants	340
Wellhead Revenues Reinvested in Drilling	348
Natural Gas Reserves & Reserve Additions, Total & Gulf of Mexico	368
World Production of Crude & Natural Gas, % from Offshore	371
Energy Consumption, By Type	392
Electric Power Production, By Source	402

Oil & Gas Journal Energy Database

Energy Statistics Sourcebook

Introduction

The energy industry as a whole, but the oil and gas industry in particular, has been going through an unprecedented period of volatility. The industry has moved through a period of record highs to a recent period of record or near record lows. And this change has all occurred within the last 10-15 years.

** The average price of U.S. crude oil jumped from $3.89/bbl. in 1973 to $31.77/bbl. in 1981. Then it plunged to $9.39/bbl. in July 1986. By mid 1987 the average U.S. crude oil price had rebounded to an estimated $15/bbl.

** The number of rotary rigs drilling in the U.S. went from an average of 828 in March 1971 to 4,521 in December 1981, a record high. Then it plummeted to 686 in July 1986, a new record low.

** Domestic demand for petroleum products moved up steadily for decades to a peak of 18.847 million b/d in 1978. It then fell sharply to 15.231 million b/d in 1983. Since then it has slowly climbed, reaching 16.281 million b/d in 1986.

** OPEC production of crude oil moved up steadily from its inception in 1960 and peaked at 31.298 million b/d in 1977. It then fell by almost 50% to 16.002 million b/d in 1985. Production then jumped to 18.057 million b/d in 1986 but fell to 16.025 million b/d for first half 1987.

** Total U.S. refinery capacity moved up steadily from 12.7 million b/d in 1970 to 18.1 million b/d in 1980. By the end of 1986, capacity had fallen sharply to 15.6 million b/d. Small increases brought capacity to 15.7 million b/d in mid 1987.

These are only a few examples of the type of volatility which the oil and gas industry has experienced in recent years.

Making intelligent profitable decisions about activities in the oil and gas industry requires careful evaluation of the events of the recent past. And this requires access to a substantial amount of statistical data describing industry activities.

This Energy Statistics Sourcebook has been designed to provide the basic key statistics necessary for oil and gas industry analysis in one convenient publication. Not only to provide the key statistics necessary, but to provide them for a sufficient time period and in sufficient detail for conducting all types of analysis. In addition to providing annual data for all of the time series, the Sourcebook provides monthly data for much of the information. The monthly data enables the analyst to study seasonal patterns and to more accurately examine cyclical patterns. It also enables analysts to experiment with lead/lag relationships between time series or to test the relationship or correlation among various series. For most time series at least ten years of data has been provided, and the data extends through the last complete year of statistical information -- 1986.

For each industry segment the essential series necessary for analysis have been selected and presented. The series have been selected by the economics staff of the Oil & Gas Journal. The selection of data is based on their years of experience in working with and collecting statistical information on the oil and gas industry. These are the key series for each industry sector selected from the 35,000 time series contained in the Oil & Gas Journal Energy Database. This database is the largest, most comprehensive, on-line database available for the oil, gas and energy industries. It would be impossible to capture the entire database library in a convenient printed publication. So this carefully selected compendium of key series has been developed for your convenience. You will find it an extremely useful tool for analysis and understanding of trends in the industry.

As an added feature, the Oil & Gas Journal economics staff has provided graphic presentations of key series. These graphs give a vivid picture of the changes that have occurred in the industry over recent years. The charts illustrate additional ways that the statistics in the Sourcebook can be used for analysis.

The statistical tables have been grouped into chapters. Each chapter describes a major sector of the industry. A brief introduction to each chapter describes the industry sector and explains why the data is the key to understanding activity in that sector. These introductions provide some additional tips on how to read recent industry activity and how to structure a reasonable scenario or scenarios for forecasting future events.

All of these features have been combined to provide you with an easy to use book for industry analysis and source for energy statistics -- the Energy Statistics Sourcebook from Oil & Gas Journal Energy Database.

Keep it on your desk within easy reach and you will soon find it a valuable aid in your analysis of the industry.

Exploration and Drilling

The exploration and drilling sector of the oil and gas industry is extremely volatile. The level of activity has historically gone through substantial swings as industry economic conditions change.

Recently the number of active rigs working in the U.S. went from a record of 4,530 at the end of 1981 down to a record low of 663 in mid-July 1986. This was a drop of 3,867 active drilling rigs, a decline of 85.4%.

This unprecedented decline was a direct result of a shift in actual conditions in the industry and a sharp shift in expectations for the future. This was primarily a change in the actual and expected prices for crude oil and natural gas. The rate of return fell and expected return on investments in exploration and drilling activity was uncertain. This massive drop in activity took place in a relatively short period of time, only four and one-half years. Changes in economic activity of this magnitude normally occur over a much longer period of time.

By the end of July 1987 the active rig count had climbed back to 973. Higher crude oil prices and a more optimistic outlook for future prices fueled the increase.

These events, occurring over a short span of time vividly highlight the degree of volatility in this key segment of the industry.

While this change was going on in the U.S., shifts in activity were also occurring elsewhere. Exploration and drilling activity worldwide was adapting to the changing economic conditions in the industry. But the rate and magnitude of change differed by country and geographical area.

To properly and adequately analyze the past seasonal and cyclical fluctuations in exploration and drilling activity worldwide, a large array of data is required. The analyst must use a time span long enough to examine these trends, and a sufficient number of key data series are required to identify leading indicators of activity and to examine the relationships among the key indicators of activity.

This chapter of the Energy Statistics Sourcebook presents those series which are essential for analysis of the exploration and drilling segment of the industry both in the U.S. and worldwide. The Sourcebook includes both monthly and annual data to provide the analyst with all of the data required in one convenient publication. This chapter contains information on leading indicators of activity such as the seismic crew count and well permit applications. Drilling and well servicing rig counts are included to measure activity as it occurs. There is also substantial detailed data on the resulting well completions. Drilling cost data is included for economic and financial analysis. This chapter of the Sourcebook also includes international data for analyzing worldwide exploration and drilling activity.

Exploration and Drilling

Active Drilling Rigs, Total U.S., Monthly, 16
Active Drilling Rigs, By State, Annual, 18
Active Drilling Rigs, Selected States, Monthly, 23
Active Drilling Rigs, By Depth Classifications, Monthly, 24
Reed Rig Census, Annual, 26
Active Seismic Crew Count, Total U.S., Monthly, 27
Seismic Crew Months Worked, By State, Annual, 28
Well Servicing Rigs, Available & Working, Total U.S., Monthly, 30
Well Permit Applications, Selected States, Monthly, 31
Total Acreage Under Lease, By State, Annual, 32
Well Completions, By Type, Total U.S., Annual, 35
Well Completions, As Completed, By State, Annual, 36
Footage Drilled, As Completed, By State, Annual, 40
Exploratory Well Completions, As Completed, By State, Annual, 44
Well Completions & Footage, As Completed, By Type, Total U.S., Monthly, 48
Exploratory Well Completions & Footage, As Completed, By Type, Total U.S., Monthly, 53
Well Completions by Depth Interval, As Completed, Total U.S., Annual, 58
Joint Association Survey on Drilling Costs, Total U.S., Annual, 60
Average Drilling Cost Per Well, By State, Annual, 62
Average Drilling Cost Per Foot, By State, Annual, 64
Indexed Cost of Drilling & Equipping a Well, By Component, Total U.S. Annual, 66
International Active Drilling Rigs, By Country, Annual, 68
Active Drilling Rigs, Non-Communist, Monthly, 70
Active Drilling Rigs, Canada, Monthly, 71
International Active Seismic Crews, By Area, Annual, 72
Active Seismic Crews, Canada, Monthly, 73
Total Non-Communist Well Completions, By Region, Annual, 74
Exploratory Non-Communist Well Completions, By Region, Annual, 75

Active Drilling Rigs
Total U.S.
Monthly Average

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1942	758.0	729.0	692.0	719.0	760.0	767.0	833.0	807.0	762.0	764.0	752.0	789.0	**761.0**
1943	703.0	749.0	788.0	805.0	847.0	913.0	1,008.0	1,078.0	1,124.0	1,196.0	1,258.0	1,316.0	**982.1**
1944	1,292.0	1,324.0	1,365.0	1,412.0	1,475.0	1,559.0	1,628.0	1,677.0	1,723.0	1,780.0	1,821.0	1,770.0	**1,568.8**
1945	1,706.0	1,681.0	1,672.0	1,686.0	1,707.0	1,712.0	1,699.0	1,699.0	1,725.0	1,731.0	1,766.0	1,736.0	**1,710.0**
1946	1,665.0	1,504.0	1,427.0	1,479.0	1,458.0	1,491.0	1,493.0	1,533.0	1,624.0	1,665.0	1,660.0	1,673.0	**1,556.0**
1947	1,535.0	1,582.0	1,603.0	1,615.0	1,656.0	1,764.0	1,850.0	1,897.0	1,927.0	1,995.0	2,006.0	1,967.0	**1,783.1**
1948	1,944.0	1,882.0	1,871.0	2,002.0	2,150.0	2,219.0	2,256.0	2,297.0	2,268.0	2,320.0	2,364.0	2,314.0	**2,157.3**
1949	2,027.0	1,948.0	2,006.0	2,050.0	2,062.0	2,033.0	1,960.0	1,947.0	1,930.0	1,971.0	2,112.0	2,162.0	**2,017.3**
1950	1,968.0	1,898.0	1,959.0	2,026.0	2,087.0	2,197.0	2,201.0	2,210.0	2,207.0	2,329.0	2,384.0	2,386.0	**2,154.3**
1951	2,168.0	2,060.0	2,173.0	2,318.0	2,444.0	2,518.0	2,598.0	2,697.0	2,780.0	2,860.0	2,930.0	2,975.0	**2,543.4**
1952	2,774.0	2,706.0	2,694.0	2,771.0	2,828.0	2,783.0	2,490.0	2,341.0	2,406.0	2,522.0	2,655.0	2,718.0	**2,640.7**
1953	2,518.0	2,468.0	2,466.0	2,528.0	2,564.0	2,630.0	2,626.0	2,618.0	2,614.0	2,710.0	2,787.0	2,831.0	**2,613.3**
1954	2,491.0	2,508.0	2,553.0	2,604.0	2,560.0	2,542.0	2,480.0	2,401.0	2,355.0	2,382.0	2,523.0	2,701.0	**2,508.3**
1955	2,424.0	2,455.0	2,548.0	2,618.0	2,671.0	2,732.0	2,698.0	2,728.0	2,752.0	2,768.0	2,850.0	2,991.0	**2,686.3**
1956	2,635.0	2,482.0	2,647.0	2,689.0	2,723.0	2,756.0	2,622.0	2,522.0	2,526.0	2,551.0	2,572.0	2,716.0	**2,620.1**
1957	2,337.0	2,294.0	2,425.0	2,391.0	2,346.0	2,465.0	2,528.0	2,532.0	2,500.0	2,408.0	2,390.0	2,497.0	**2,426.1**
1958	2,017.0	1,935.0	1,768.0	1,807.0	1,802.0	1,824.0	1,799.0	1,897.0	1,915.0	1,979.0	2,081.0	2,261.0	**1,923.8**
1959	1,881.0	1,816.0	1,920.0	2,071.0	2,146.0	2,242.0	2,200.0	2,132.0	2,123.0	2,076.0	2,152.0	2,095.0	**2,071.2**
1960	1,691.6	1,669.8	1,667.3	1,792.8	1,822.0	1,788.8	1,715.8	1,701.4	1,746.1	1,735.6	1,804.7	1,842.8	**1,748.2**
1961	1,594.6	1,518.3	1,599.8	1,630.8	1,764.6	1,793.3	1,832.0	1,854.8	1,853.0	1,822.2	1,886.0	1,983.0	**1,761.0**
1962	1,711.4	1,618.8	1,602.0	1,639.6	1,645.5	1,634.5	1,624.0	1,692.5	1,687.8	1,598.0	1,602.2	1,633.4	**1,640.8**
1963	1,394.5	1,382.8	1,400.2	1,454.6	1,548.0	1,538.5	1,530.2	1,467.5	1,466.2	1,536.8	1,607.5	1,663.6	**1,499.2**
1964	1,481.5	1,378.5	1,417.4	1,420.5	1,506.5	1,576.8	1,580.5	1,549.0	1,512.3	1,514.0	1,525.4	1,548.3	**1,500.9**
1965	1,359.2	1,256.2	1,285.8	1,308.0	1,385.0	1,416.5	1,392.8	1,376.8	1,393.0	1,442.0	1,491.4	1,545.5	**1,387.7**
1966	1,336.4	1,200.5	1,226.8	1,266.3	1,237.2	1,281.3	1,253.0	1,308.2	1,229.5	1,272.4	1,311.7	1,336.7	**1,271.7**
1967	1,159.4	1,058.3	1,035.5	1,054.8	1,070.2	1,038.5	[illegible]06.6	1,146.5	1,155.5	1,191.2	1,252.8	1,345.3	**1,134.6**
1968	1,151.0	1,054.0	1,050.5	1,091.6	1,132.8	1,127.5	1,120.4	1,176.0	1,206.0	1,220.3	1,319.5	1,386.0	**1,169.6**
1969	1,260.0	1,102.8	1,038.6	1,094.3	1,135.0	1,201.4	1,212.3	1,210.8	1,199.6	1,237.5	1,275.8	1,360.8	**1,194.1**
1970	1,207.3	1,044.8	946.4	945.5	1,010.5	996.8	983.8	949.2	946.5	1,003.8	1,120.4	1,182.3	**1,028.1**
1971	1,007.3	871.8	828.0	875.5	892.0	911.3	954.3	980.0	1,039.0	1,037.0	1,137.6	1,171.5	**975.4**
1972	1,146.8	1,071.3	1,034.3	1,001.8	1,005.0	1,049.0	1,103.6	1,129.8	1,152.0	1,165.2	1,186.5	1,241.0	**1,107.2**
1973	1,219.0	1,126.0	1,049.0	993.0	1,046.0	1,118.3	1,155.6	1,222.3	1,265.8	1,334.4	1,389.8	1,405.0	**1,193.7**
1974	1,371.8	1,355.0	1,367.3	1,380.6	1,412.5	1,432.3	1,480.2	1,518.3	1,527.2	1,583.8	1,596.3	1,642.6	**1,472.3**
1975	1,615.3	1,611.3	1,650.8	1,604.5	1,592.3	1,612.8	1,616.5	1,645.3	1,699.4	1,716.3	1,757.3	1,793.0	**1,659.6**
1976	1,710.5	1,594.0	1,540.4	1,480.0	1,496.0	1,545.8	1,596.8	1,690.6	1,743.8	1,794.3	1,839.8	1,860.5	**1,657.7**
1977	1,850.0	1,855.8	1,887.0	1,907.3	1,982.0	2,007.7	2,023.0	2,066.0	2,084.3	2,100.8	2,112.8	2,141.0	**2,001.5**
1978	2,127.6	2,134.8	2,153.5	2,198.3	2,249.4	2,286.5	2,306.8	2,324.5	2,331.8	2,346.2	2,356.3	2,285.5	**2,258.4**
1979	2,199.4	2,063.8	1,970.8	1,943.2	1,960.3	1,998.7	2,093.8	2,221.8	2,283.5	2,379.6	2,459.8	2,551.8	**2,177.2**
1980	2,571.4	2,613.0	2,658.4	2,682.5	2,797.0	2,650.0	2,953.0	3,044.8	3,099.2	3,148.5	3,220.3	3,285.6	**2,910.3**

Active Drilling Rigs
Total U.S.
Monthly Average

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1981	3,386.3	3,502.3	3,595.4	3,728.0	3,816.5	3,926.4	3,997.5	4,131.4	4,241.5	4,351.5	4,436.4	4,520.5	**3,969.5**
1982	4,436.0	4,159.8	3,815.8	3,459.5	3,177.8	2,908.4	2,745.8	2,620.0	2,482.5	2,401.5	2,499.8	2,695.8	**3,116.9**
1983	2,621.8	2,192.3	2,003.3	1,845.8	1,926.0	1,978.8	2,038.8	2,156.2	2,251.5	2,381.8	2,572.3	2,780.0	**2,229.1**
1984	2,666.4	2,422.8	2,245.0	2,119.6	2,277.0	2,363.0	2,386.0	2,417.0	2,420.0	2,492.0	2,629.0	2,713.0	**2,429.2**
1985	2,452.0	2,188.0	1,955.0	1,877.0	1,865.0	1,858.0	1,909.0	1,931.0	1,930.0	1,879.0	1,912.0	1,950.0	**1,975.5**
1986	1,810.0	1,444.0	1,139.0	906.0	781.0	705.0	686.0	730.0	755.0	819.0	899.0	963.0	**969.8**

Data from Oil & Gas Journal Energy Database.
Source: Baker Hughes Inc.

Active Drilling Rigs
By State
Average

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Alabama	6.8	8.3	14.6	13.2	11.8	14.2	17.2	13.5	12.5	12.6
Alaska	13.7	5.0	5.3	5.3	9.0	13.9	14.3	15.0	15.5	13.5
Arizona	0.5	0.8	0.9	1.9	1.1	0.3	0.8	0.5	0.4	0.0
Arkansas	13.4	14.9	15.3	14.8	17.5	13.9	14.8	14.6	13.9	10.4
California	52.2	45.9	46.1	50.5	71.9	79.5	88.9	89.5	94.1	95.6
Land	42.0	40.5	44.8	48.7	69.6	76.2	84.7	81.3	86.4	85.7
Offshore	10.2	5.4	1.3	1.8	2.2	3.3	4.2	8.2	7.8	9.9
Colorado	25.6	29.8	36.1	42.0	45.5	42.5	38.1	44.7	41.1	40.2
Florida	4.5	10.8	17.7	9.3	8.5	9.1	5.0	6.1	6.3	5.3
Georgia	0.1	0.1	0.1	0.8	0.4	0.2	0.0	0.4	0.0	0.8
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Idaho	0.0	0.0	0.1	0.8	0.1	0.4	1.2	1.3	3.2	1.8
Illinois	13.5	12.8	13.7	5.9	7.3	18.7	21.7	15.7	26.0	13.1
Indiana	0.6	1.1	1.5	0.2	1.1	1.9	1.7	3.3	4.4	0.3
Iowa	0.3	1.4	1.8	0.8	0.4	1.8	0.0	1.3	0.5	0.0
Kansas	30.4	28.9	25.0	28.2	43.8	57.4	50.7	67.4	75.6	62.5
Kentucky	0.9	2.4	2.4	1.5	2.4	1.0	1.0	1.7	3.3	0.5
Louisiana	203.6	193.2	216.2	204.6	202.7	227.2	231.4	291.9	338.3	347.0
Inland Waters	57.0	49.6	54.0	55.6	57.5	55.0	49.0	56.3	62.5	62.1
North	11.7	15.9	20.0	23.1	29.3	31.4	33.8	45.2	39.8	34.5
South Land	56.4	53.7	59.9	55.1	49.2	63.6	65.4	81.3	113.9	112.3
Offshore	78.5	74.1	82.3	70.8	66.8	77.0	83.2	109.0	122.1	138.2
Maryland	0.1	0.0	1.5	0.4	0.0	0.5	0.6	0.4	0.7	0.5
Michigan	10.9	12.4	17.7	19.5	24.4	28.1	23.8	24.0	24.0	25.1
Minnesota	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mississippi	43.5	38.9	37.1	29.2	28.8	25.5	32.1	41.7	44.5	40.2
Missouri	0.0	0.0	0.0	0.1	0.3	0.3	0.0	0.1	0.0	0.0
Montana	16.6	17.5	19.9	19.0	24.4	26.8	28.2	27.1	30.1	32.9
Nebraska	6.0	4.5	6.2	4.6	6.8	9.0	7.7	9.2	9.6	9.2
Nevada	0.3	1.2	0.2	0.3	1.1	0.5	1.7	3.1	2.9	4.1
New Jersey	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
New Mexico	39.8	47.1	56.7	61.8	79.4	71.2	53.8	69.5	75.5	87.5
New York	0.3	0.9	1.0	1.5	6.8	7.6	9.0	7.2	7.0	8.7
North Carolina	0.0	0.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
North Dakota	8.5	8.7	7.4	9.8	11.5	17.1	18.7	23.8	39.1	56.5
Ohio	24.3	16.6	23.1	35.7	30.1	20.8	25.8	33.3	45.6	46.3
Oklahoma	97.8	89.7	90.6	115.0	145.9	177.4	186.6	233.2	258.2	246.8
Oregon	0.0	0.2	0.0	0.2	0.0	0.3	0.1	0.3	0.4	1.1
Pennsylvania	8.6	9.4	8.3	11.1	13.7	10.3	9.9	14.7	25.2	28.9
South Carolina	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South Dakota	1.8	0.9	0.6	0.7	0.8	1.4	2.0	2.7	2.3	1.4
Tennessee	1.9	0.9	0.0	0.1	0.3	0.5	0.0	0.0	0.0	0.1

Active Drilling Rigs
By State
Average

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Texas	294.1	291.0	325.6	376.6	507.9	637.1	652.8	778.6	855.1	770.2
Dist. 1	NA	NA	NA	NA	17.0	29.5	55.8	52.8	37.2	23.8
Dist. 2	NA	NA	NA	NA	24.5	28.7	25.0	33.8	39.5	35.1
Dist. 3	NA	NA	NA	NA	59.3	66.4	66.0	84.8	99.2	106.2
Dist. 4	NA	NA	NA	NA	44.7	69.7	70.9	83.7	87.5	85.6
Dist. 5	NA	NA	NA	NA	14.2	15.8	16.0	18.6	35.4	29.3
Dist. 6	NA	NA	NA	NA	30.6	31.5	38.0	54.7	81.2	77.8
Dist. 7B	NA	NA	NA	NA	37.0	62.8	69.5	87.3	91.3	71.2
Dist. 7C	NA	NA	NA	NA	45.4	47.3	43.7	55.2	50.8	50.4
Dist. 8	NA	NA	NA	NA	109.1	121.5	105.9	107.2	98.7	90.7
Dist. 8A	NA	NA	NA	NA	40.5	57.2	47.6	61.8	65.0	50.6
Dist. 9	NA	NA	NA	NA	30.1	44.7	41.0	54.6	61.9	51.3
Dist. 10	NA	NA	NA	NA	34.6	41.0	37.0	42.2	60.4	48.1
Inland Waters	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Offshore	NA	NA	NA	NA	21.3	21.8	34.4	42.0	46.9	50.3
Utah	11.9	17.3	34.6	37.6	41.7	26.0	19.1	29.5	32.1	28.9
Vermont	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Virginia	0.9	1.0	1.4	1.0	1.8	1.1	0.3	1.2	1.1	1.3
Washington	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
West Virginia	15.8	17.4	16.9	20.1	18.3	9.6	11.9	16.5	27.1	29.8
Wyoming	70.9	44.8	61.7	70.0	107.1	107.4	86.4	118.0	136.4	147.2
Total U.S.	1,028.1	975.4	1,107.2	1,193.7	1,472.3	1,659.6	1,657.7	2,001.5	2,258.4	2,177.2
Inland Waters	57.0	49.6	54.0	55.6	57.5	55.0	49.0	56.3	62.5	62.1
Offshore	91.0	79.5	84.4	74.2	93.1	105.1	125.9	165.7	185.2	206.8
Land	880.1	846.4	968.8	1,063.9	1,321.7	1,499.5	1,482.8	1,779.4	2,010.7	1,908.4

Active Drilling Rigs
By State
Average

	1980	1981	1982	1983	1984	1985	1986
Alabama	10.8	17.3	15.3	16.4	15.5	22.3	10.7
Alaska	13.8	23.5	21.6	13.8	14.1	20.2	12.9
Arizona	1.0	1.1	1.0	0.3	0.2	0.3	0.0
Arkansas	26.8	33.9	27.1	25.9	26.1	24.3	9.7
California	120.2	154.9	129.2	105.7	107.2	80.7	49.2
Land	104.7	133.7	106.6	83.4	89.2	68.8	44.1
Offshore	15.5	21.1	22.5	22.3	18.0	11.9	5.5
Colorado	61.1	81.6	60.7	52.2	53.9	49.9	24.7
Florida	4.1	7.8	4.6	4.4	3.6	6.8	2.3
Georgia	0.4	0.6	0.1	0.2	0.3	0.0	0.2
Hawaii	0.2	0.8	0.4	0.7	0.6	0.5	0.1
Idaho	2.6	3.2	1.5	1.2	0.8	1.3	1.2
Illinois	25.4	44.6	75.8	60.2	41.5	26.6	6.0
Indiana	0.1	1.2	7.1	5.9	6.6	3.7	1.3
Iowa	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Kansas	120.2	196.2	158.0	124.1	127.6	91.7	47.2
Kentucky	1.7	5.3	9.5	8.4	8.1	6.3	2.6
Louisiana	427.4	455.6	344.3	282.5	309.9	283.1	143.3
Inland Waters	76.6	83.2	59.6	47.1	51.4	43.7	20.4
North	54.9	58.0	39.9	29.4	30.3	24.7	11.6
South Land	156.4	160.3	108.2	81.9	96.1	85.5	42.2
Offshore	139.4	154.1	136.6	124.2	132.3	129.4	69.2
Maryland	0.2	0.6	0.0	0.0	0.0	0.0	0.1
Michigan	30.7	36.5	31.5	29.1	34.1	34.0	24.3
Minnesota	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Mississippi	57.6	71.5	41.9	32.8	32.4	30.9	15.4
Missouri	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Montana	49.2	81.4	36.6	23.9	36.0	22.8	9.9
Nebraska	14.3	15.1	9.4	9.0	9.1	6.6	3.3
Nevada	4.6	4.9	3.1	1.1	5.0	4.9	3.1
New Jersey	0.0	0.0	0.1	0.3	0.8	0.0	0.0
New Mexico	117.6	134.9	103.9	65.0	77.8	71.3	29.3
New York	7.0	11.6	15.1	10.2	8.9	5.2	2.3
North Carolina	0.0	0.0	0.0	0.0	0.0	0.0	0.0
North Dakota	83.4	118.8	69.8	42.5	50.9	38.5	13.6
Ohio	73.7	97.8	57.4	39.3	51.1	29.2	17.9
Oklahoma	397.3	698.4	623.2	285.2	319.2	251.5	142.2
Oregon	0.0	1.9	0.8	0.0	0.5	0.5	0.3
Pennsylvania	29.0	38.6	32.6	22.0	35.5	29.9	17.8
South Carolina	0.0	0.0	0.0	0.0	0.3	0.0	0.0
South Dakota	1.9	2.2	1.5	1.0	2.2	1.7	0.6
Tennessee	0.8	0.3	1.6	0.6	0.5	0.0	0.5

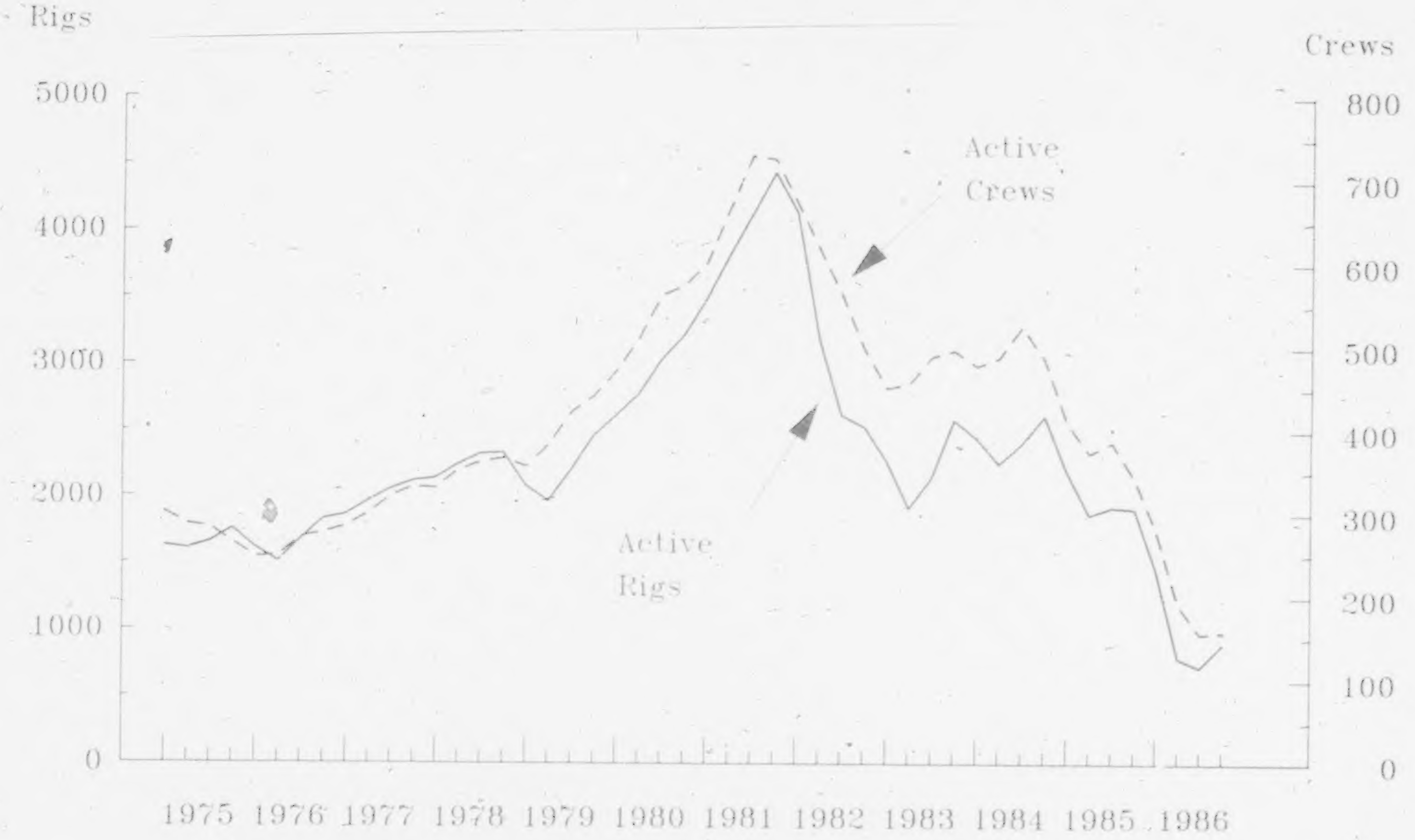
Active Drilling Rigs
By State
Average

	1980	1981	1982	1983	1984	1985	1986
Texas	987.7	1,315.8	993.7	796.2	850.1	679.2	312.9
Dist. 1	35.1	67.5	39.4	20.8	17.5	14.9	5.1
Dist. 2	48.8	68.3	47.6	34.0	36.0	27.8	12.8
Dist. 3	161.7	236.7	122.2	99.9	102.1	74.4	32.3
Dist. 4	105.3	124.0	100.6	81.9	82.1	67.7	37.0
Dist. 5	39.0	44.0	26.7	23.6	31.0	27.3	18.3
Dist. 6	80.8	119.7	90.3	78.6	71.1	50.6	27.4
Dist. 7B	77.3	82.4	56.8	54.6	50.7	41.8	17.8
Dist. 7C	69.7	89.3	71.1	55.4	59.2	51.7	21.4
Dist. 8	112.2	166.3	130.5	110.4	149.1	124.5	55.0
Dist. 8A	65.3	88.7	72.2	62.5	68.6	65.6	29.8
Dist. 9	69.9	88.2	82.0	70.4	73.9	45.3	19.3
Dist. 10	50.8	66.5	66.3	48.3	49.9	37.3	16.1
Inland Waters	NA	NA	NA	7.9	4.7	3.7	2.4
Offshore	72.1	74.4	77.9	48.3	55.4	48.3	18.4
Utah	42.4	69.2	40.1	36.8	45.3	28.8	11.4
Vermont	0.0	0.0	0.0	0.0	0.3	0.0	0.0
Virginia	0.8	3.5	2.6	1.7	2.6	3.8	5.6
Washington	0.5	1.6	1.0	1.1	0.6	0.1	0.0
West Virginia	37.8	44.8	49.5	33.9	37.7	26.0	14.9
Wyoming	155.5	191.3	143.3	95.6	114.6	92.7	35.8
Total U.S.	2,910.3	3,969.5	3,116.9	2,229.1	2,429.2	1,975.5	969.8
Inland Waters	76.6	83.2	72.3	57.9	57.8	47.7	22.8
Offshore	230.9	257.6	243.7	199.1	213.0	205.7	100.0
Land	2,602.8	3,628.7	2,800.9	1,972.1	2,158.4	1,722.2	847.3

Note: May not add to totals due to independent rounding

Data from Oil & Gas Journal Energy Database.
Source: Baker Hughes Inc.

U.S. Rig Count and Seismic Crew Count



Source: Baker–Hughes & SEG

Active Drilling Rigs
Monthly Average
Selected States

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
California													
1979	95.4	83.5	82.0	82.4	82.3	82.2	86.4	95.0	109.2	110.2	117.3	121.3	**95.6**
1980	119.2	113.0	113.0	118.0	118.0	118.4	117.8	120.8	125.0	121.5	125.3	132.6	**120.2**
1981	138.8	140.3	141.0	148.8	150.0	152.4	154.5	161.8	161.0	162.8	171.8	175.0	**154.9**
1982	170.3	168.0	153.2	135.8	121.8	110.0	115.5	111.2	116.3	109.0	118.4	120.8	**129.2**
1983	112.8	94.3	89.8	87.5	95.4	100.8	113.8	113.2	115.5	113.6	113.8	118.3	**105.7**
1984	104.4	95.8	96.5	93.6	105.0	99.0	109.0	105.0	108.0	111.0	128.0	131.0	**107.2**
1985	112.0	91.0	74.0	70.0	68.0	68.0	71.0	90.0	82.0	75.0	82.0	85.0	**80.7**
1986	72.0	60.0	62.0	51.0	43.0	39.0	37.0	38.0	40.0	49.0	48.0	51.0	**49.2**
Kansas													
1979	72.6	70.3	60.2	58.8	63.8	66.0	59.8	60.2	60.5	64.0	69.0	44.5	**62.5**
1980	84.8	89.7	100.8	96.5	104.3	116.0	124.0	134.8	142.2	145.8	149.5	154.2	**120.2**
1981	166.5	176.3	182.8	191.5	195.8	195.4	187.5	198.0	208.3	215.5	222.0	215.3	**196.2**
1982	218.5	209.5	189.0	176.0	166.5	140.8	130.5	133.4	123.3	122.5	137.0	149.0	**158.0**
1983	143.8	121.3	112.8	76.8	114.2	114.8	119.8	125.4	127.0	136.2	149.0	148.3	**124.1**
1984	135.4	124.5	124.0	96.2	118.0	132.0	128.0	132.0	144.0	125.0	136.0	136.0	**127.6**
1985	110.0	98.0	91.0	86.0	78.0	85.0	99.0	92.0	101.0	89.0	90.0	81.0	**91.7**
1986	77.0	65.0	50.0	46.0	36.0	38.0	36.0	32.0	40.0	44.0	53.0	49.0	**47.2**
Louisiana													
1979	361.0	349.2	353.5	332.4	316.5	312.2	322.0	340.0	359.0	365.4	369.2	384.0	**347.0**
1980	392.8	382.0	403.4	417.7	436.2	430.2	429.5	449.0	447.8	450.5	447.8	441.4	**427.4**
1981	428.0	440.5	439.8	450.5	436.3	442.4	463.8	462.2	460.3	471.0	485.2	487.3	**455.6**
1982	486.5	456.0	416.2	377.8	340.0	315.0	300.0	289.2	278.8	285.0	281.6	305.3	**344.3**
1983	331.2	310.5	301.5	278.8	254.2	245.5	243.0	262.0	255.0	271.2	309.0	328.0	**282.5**
1984	350.6	319.8	303.0	289.6	284.0	281.0	287.0	296.0	299.0	312.0	338.0	359.0	**309.9**
1985	349.0	320.0	292.0	284.0	281.0	277.0	265.0	279.0	262.0	249.0	257.0	282.0	**283.1**
1986	252.0	228.0	177.0	143.0	118.0	105.0	105.0	106.0	118.0	127.0	115.0	125.0	**143.3**
Oklahoma													
1979	245.4	238.2	228.3	220.2	220.2	229.0	245.8	257.0	249.3	271.4	276.0	280.5	**246.8**
1980	302.8	313.2	338.0	358.8	388.0	385.4	404.5	431.0	448.8	445.0	462.3	490.0	**397.3**
1981	524.0	566.3	604.4	641.5	652.3	667.0	698.0	724.0	772.8	816.3	841.8	871.8	**698.4**
1982	872.8	850.0	854.6	827.8	753.0	675.4	614.8	531.4	441.0	363.0	346.0	348.3	**623.2**
1983	361.6	291.8	289.0	247.0	265.6	251.8	268.3	269.6	253.8	255.4	295.3	372.8	**285.2**
1984	386.0	365.8	332.5	284.2	318.0	313.0	310.0	289.0	285.0	297.0	321.0	329.0	**319.2**
1985	298.0	270.0	245.0	269.0	253.0	242.0	240.0	237.0	243.0	219.0	252.0	250.0	**251.5**
1986	255.0	203.0	168.0	147.0	122.0	103.0	106.0	114.0	110.0	105.0	130.0	143.0	**142.2**
Texas													
1979	796.6	728.8	699.2	698.6	711.5	699.7	741.8	768.8	798.8	828.8	860.2	909.3	**770.2**
1980	921.0	933.5	941.0	937.8	941.0	958.4	986.3	998.8	1,006.8	1,045.0	1,090.8	1,092.2	**987.7**
1981	1,109.3	1,156.3	1,214.2	1,233.8	1,294.8	1,331.8	1,349.3	1,399.0	1,417.8	1,417.0	1,418.0	1,448.5	**1,315.8**
1982	1,423.8	1,305.3	1,207.4	1,102.5	980.8	873.6	830.8	816.0	783.5	790.5	860.4	950.0	**993.7**
1983	916.2	801.3	725.3	708.3	697.2	691.3	686.6	736.6	834.5	873.8	915.3	968.3	**796.2**
1984	894.6	846.5	818.5	810.8	824.0	857.0	833.0	818.0	819.0	856.0	892.0	932.0	**850.1**
1985	849.0	775.0	737.0	685.0	664.0	647.0	661.0	650.0	630.0	613.0	613.0	633.0	**679.8**
1986	580.0	470.0	384.0	307.0	258.0	216.0	222.0	231.0	225.0	213.0	290.0	319.0	**312.9**

Data from Oil & Gas Journal Energy Database.
Source: Baker Hughes Inc.

Active Drilling Rigs
By Depth Classification
Monthly Average
Total U.S.

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1983													
0-2,500 ft.	59.2	59.7	49.8	71.5	67.5	56.0	103.0	86.2	87.2	86.5	88.2	82.6	**74.8**
2,501-5,000 ft.	476.2	357.2	283.4	436.7	395.2	354.6	592.7	515.0	605.4	640.0	643.0	637.4	**494.7**
5,001-7,500 ft.	433.7	322.5	246.2	387.5	339.0	290.8	484.7	397.0	438.8	474.0	543.2	564.0	**410.1**
7,501-10,000 ft.	520.5	455.2	358.0	537.5	406.2	343.6	578.5	497.2	518.4	524.7	612.2	653.2	**500.4**
10,001-12,500 ft.	498.0	410.5	286.4	387.2	329.5	259.8	384.5	330.2	368.4	401.2	445.7	489.2	**382.6**
12,501-15,000 ft.	245.2	237.5	178.4	247.2	196.0	159.4	251.5	219.0	246.2	270.0	294.2	322.0	**238.9**
15,001-17,500 ft.	116.0	116.2	96.4	139.2	105.7	79.8	116.5	101.0	100.8	106.0	111.5	125.4	**109.5**
17,501-20,000 ft.	65.5	62.5	46.4	65.5	51.2	40.8	63.7	48.2	49.6	56.7	58.7	70.2	**56.6**
20,001-22,500 ft.	25.0	21.0	17.0	27.7	19.7	14.4	20.5	20.5	20.6	18.7	18.0	19.4	**20.2**
22,501-25,000 ft.	10.2	10.0	6.8	11.5	10.5	8.0	9.7	8.0	9.2	10.2	7.7	6.8	**9.1**
25,001 ft. & over	5.7	7.2	4.2	4.7	3.0	2.4	5.0	2.2	3.4	3.7	4.0	4.6	**4.2**
Total	2,293.0	2,007.0	1,858.0	1,928.0	1,952.0	2,046.0	2,610.5	2,224.7	2,448.0	2,592.0	2,826.7	2,974.8/	**2,313.4**
1984													
0-2,500 ft.	62.0	65.0	62.6	77.2	77.2	76.4	75.0	76.2	72.5	63.0	71.8	67.2	**70.5**
2,501-5,000 ft.	588.2	508.5	442.0	421.0	507.5	558.8	555.0	560.6	543.0	532.2	570.0	530.2	**526.4**
5,001-7,500 ft.	553.2	488.7	412.2	433.5	493.0	487.2	507.2	499.6	523.7	498.5	527.0	520.0	**495.3**
7,501-10,000 ft.	609.7	533.5	508.0	495.7	520.5	521.4	539.7	553.6	533.0	558.5	590.4	605.0	**547.4**
10,001-12,500 ft.	524.7	491.5	441.2	421.0	398.0	417.4	450.5	450.0	441.7	458.0	470.6	501.0	**455.5**
12,501-15,000 ft.	320.2	305.5	289.0	263.2	280.5	292.8	313.0	308.2	282.2	308.5	311.4	299.5	**297.8**
15,001-17,500 ft.	125.5	136.0	137.4	134.0	138.7	130.0	128.2	125.0	126.7	138.0	168.0	172.5	**138.3**
17,501-20,000 ft.	74.5	77.0	75.0	74.5	66.7	64.2	65.2	74.6	78.2	73.2	73.6	68.7	**72.1**
20,001-22,500 ft.	19.5	17.2	17.6	17.0	17.0	17.0	15.0	14.4	15.2	13.2	15.8	17.7	**16.4**
22,501-25,000 ft.	7.0	6.5	7.2	7.0	5.7	4.0	3.5	4.6	4.5	4.0	3.6	4.0	**5.1**
25,001 ft. & over	3.0	2.7	2.0	1.0	1.5	2.0	2.2	4.2	4.2	5.0	4.8	3.5	**3.0**
Total	2,887.7	2,632.2	2,394.2	2,345.2	2,506.5	2,571.2	2,654.7	2,671.0	2,625.2	2,652.2	2,807.0	2,789.5	**2,628.1**
1985													
0-2,500 ft.	39.5	43.7	49.0	50.0	56.0	67.0	68.0	68.0	73.0	75.0	79.0	69.0	**61.4**
2,501-5,000 ft.	474.5	421.7	384.0	390.0	384.0	403.0	393.0	394.0	409.0	397.0	407.0	415.0	**406.0**
5,001-7,500 ft.	446.7	413.0	388.0	365.0	369.0	397.0	418.0	388.0	382.0	371.0	404.0	422.0	**397.0**
7,501-10,000 ft.	531.0	491.7	427.0	428.0	422.0	427.0	429.0	455.0	459.0	450.0	477.0	484.0	**456.7**
10,001-12,500 ft.	468.7	426.7	396.0	383.0	369.0	366.0	340.0	355.0	380.0	382.0	354.0	365.0	**382.1**
12,501-15,000 ft.	286.0	264.0	250.0	237.0	229.0	226.0	230.0	227.0	220.0	208.0	220.0	242.0	**236.6**
15,001-17,500 ft.	170.7	161.2	148.0	144.0	143.0	143.0	138.0	123.0	120.0	113.0	115.0	108.0	**135.6**
17,501-20,000 ft.	70.7	72.0	76.0	70.0	75.0	70.0	72.0	69.0	66.0	62.0	68.0	61.0	**69.3**
20,001-22,500 ft.	18.2	19.7	20.0	22.0	21.0	16.0	15.0	15.0	14.0	11.0	12.0	10.0	**16.2**
22,501-25,000 ft.	4.0	5.5	9.0	8.0	9.0	9.0	11.0	13.0	11.0	11.0	8.0	7.0	**8.8**
25,001 ft. & over	4.0	4.0	4.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	2.0	**2.7**
Total	2,514.2	2,323.5	2,151.0	2,102.0	2,081.0	2,127.0	2,116.0	2,108.0	2,135.0	2,080.5	2,145.0	2,186.0	**2,172.4**

Active Drilling Rigs
By Depth Classification
Monthly Average
Total U.S.

1986	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
0-2,500 ft.	52.0	49.0	40.0	30.3	40.0	30.0	23.8	22.3	22.4	34.5	31.0	32.8	**34.0**
2,501-5,000 ft.	334.0	236.0	195.0	154.0	153.3	134.6	154.3	151.8	168.6	195.3	210.3	204.6	**191.0**
5,001-7,500 ft.	369.0	282.0	226.0	156.3	149.5	133.2	160.5	152.8	162.2	172.5	219.5	228.2	**201.0**
7,501-10,000 ft.	410.0	329.0	262.0	200.8	177.8	146.8	151.8	169.8	166.2	186.8	214.8	229.8	**220.5**
10,001-12,500 ft.	340.0	288.0	240.0	185.0	132.3	121.4	144.3	149.8	155.2	170.8	196.0	193.4	**193.0**
12,501-15,000 ft.	228.0	193.0	149.0	115.5	104.0	99.4	94.3	95.3	86.4	85.5	94.8	96.8	**120.2**
15,001-17,500 ft.	89.0	74.0	59.0	46.8	38.3	34.6	34.5	36.3	38.6	39.5	48.8	58.2	**49.8**
17,501-20,000 ft.	57.0	47.0	38.0	31.5	28.3	25.0	23.8	18.8	18.8	14.8	15.0	18.8	**28.1**
20,001-22,500 ft.	10.0	9.0	10.0	13.0	12.8	10.6	9.3	6.3	4.6	3.0	6.0	6.0	**8.4**
22,501-25,000 ft.	9.0	8.0	7.0	6.0	6.0	4.4	3.8	3.5	2.8	2.0	2.3	2.0	**4.7**
25,001 ft. & over	2.0	2.0	1.0	0.5	0.3	0.0	0.0	0.0	0.0	0.3	0.0	0.0	**0.5**
Total	1,898.0	1,515.0	1,227.0	939.5	842.3	740.0	800.0	808.3	825.8	904.8	1,038.3	1,070.6	**1,050.8**

Data from Oil & Gas Journal Energy Database
Source: Smith International Inc.

Reed Rig Census

	Total Rigs Available	Oil Company Owned	Contractor Owned	Active Rigs	Percent Active	Number Stacked	Rigs by Depth Capability					Drilling Barges	Land Rigs	Offshore Rigs
							0 - 5000 ft.	6000 - 9000 ft.	10000 - 12000 ft.	13000 - 15000 ft.	16000 ft. & Over			
1967	2,408	49	2,359	1,573	65.3	835	623	776	435	199	375	121	2,114	**173**
1968	2,111	44	2,067	1,508	71.4	603	493	680	381	185	372	114	1,825	**172**
1969	2,060	27	2,033	1,649	80.0	411	528	626	352	188	366	98	1,827	**135**
1970	1,898	29	1,869	1,331	70.1	567	434	580	322	219	343	106	1,662	**130**
1971	1,859	27	1,832	1,308	70.4	551	436	535	329	198	361	124	1,592	**143**
1972	1,768	27	1,741	1,381	78.1	387	409	490	301	171	397	77	1,551	**140**
1973	1,767	28	1,739	1,473	83.4	294	355	517	318	164	413	71	1,570	**126**
1974	1,894	13	1,881	1,769	93.4	125	387	529	339	214	425	66	1,715	**113**
1975	2,028	14	2,014	1,877	92.6	151	396	579	380	225	448	74	1,839	**115**
1976	2,204	24	2,180	1,979	89.8	225	468	633	366	239	498	76	1,964	**164**
1977	2,482	31	2,451	2,399	96.7	83	542	628	461	274	577	77	2,186	**219**
1978	2,851	33	2,818	2,785	97.7	66	557	723	565	313	693	91	2,524	**236**
1979	3,182	38	3,144	2,874	90.3	308	546	783	631	350	872	109	2,802	**271**
1980	3,672	46	3,626	3,542	96.5	130	605	885	704	419	1,059	115	3,255	**302**
1981	4,803	41	4,762	4,703	97.9	100	773	1,080	950	595	1,405	161	4,316	**326**
1982	5,644	38	5,606	3,225	57.1	2,419	821	1,285	1,102	717	1,717	157	5,139	**348**
1983	5,273	32	5,241	2,539	48.2	2,734	746	1,233	993	662	1,639	128	4,832	**313**
1984	4,530	27	4,553	3,090	67.5	1,490	571	1,077	933	591	1,408	131	4,102	**347**
1985	4,409	23	4,386	2,625	59.5	1,784	529	1,084	894	570	1,332	121	3,940	**348**
1986	3,933	33	3,960	1,052	26.3	2,941	517	971	789	496	1,220	91	3,572	**330**

Data from Oil & Gas Journal Energy Database.
Source: Reed Tool Co.

Active Seismic Crew Count
Total U.S.

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
Total 1974					313	317	334	321	321	320	306	300	**316.5**
Land	NA	NA	NA	NA	278	279	299	287	287	288	276	275	**283.6**
Marine					35	38	35	34	34	32	30	25	**32.9**
Total 1975	301	302	299	283	286	289	286	289	274	270	265	259	**283.6**
Land	274	278	276	260	254	251	249	249	234	241	238	233	**253.1**
Marine	27	24	23	23	32	38	37	40	40	29	27	26	**30.5**
Total 1976	252	249	240	238	247	258	270	275	268	267	275	286	**260.4**
Land	232	232	222	221	226	229	240	242	240	246	250	259	**236.6**
Marine	20	17	18	17	21	25	30	33	28	21	25	27	**23.8**
Total 1977	280	286	282	292	301	305	315	326	320	330	335	329	**308.4**
Land	254	259	260	266	272	274	285	295	291	302	309	303	**280.8**
Marine	26	27	22	26	29	31	30	31	29	28	26	26	**27.6**
Total 1978	328	328	334	342	351	362	367	365	354	371	369	358	**352.4**
Land	302	305	314	321	330	336	341	338	333	342	342	328	**327.7**
Marine	26	23	20	21	21	26	26	27	21	29	27	30	**24.8**
Total 1979	355	350	364	360	383	404	407	424	433	436	439	450	**400.4**
Land	327	321	332	330	355	372	376	393	403	407	408	419	**370.3**
Marine	28	29	32	30	28	32	31	31	30	29	31	31	**30.2**
Total 1980	468	469	477	496	502	535	556	565	567	571	572	580	**529.8**
Land	439	440	448	465	468	496	514	521	523	530	531	540	**492.9**
Marine	29	29	29	31	34	39	42	44	44	41	41	40	**36.9**
Total 1981	591	602	610	645	661	696	711	735	744	741	733	703	**681.0**
Land	553	561	570	605	619	652	668	689	697	689	681	656	**636.7**
Marine	38	41	40	40	42	44	43	46	47	52	52	47	**44.3**
Total 1982	695	678	649	626	612	615	593	562	535	516	502	477	**588.3**
Land	642	625	597	571	551	546	527	500	476	465	452	428	**531.7**
Marine	53	53	52	55	61	69	66	62	59	51	50	49	**56.7**
Total 1983	456	451	447	449	449	471	483	484	501	498	495	496	**473.3**
Land	407	404	402	410	410	428	437	435	444	448	446	445	**426.3**
Marine	49	47	45	39	39	43	46	49	57	50	49	51	**47.0**
Total 1984	477	486	471	473	490	500	529	523	524	497	493	466	**494.1**
Land	427	433	424	423	444	455	482	470	472	449	444	414	**444.8**
Marine	50	53	47	50	46	45	47	53	52	48	49	52	**49.3**
Total 1985	439	406	388	383	364	371	397	390	372	357	346	326	**378.3**
Land	393	360	340	336	323	324	350	341	323	312	305	287	**332.8**
Marine	46	46	48	47	41	47	47	49	49	45	41	39	**45.4**
Total 1986	310	295	240	205	191	180	158	156	155	158	158	157	**196.9**
Land	271	256	212	185	172	162	138	137	131	136	139	139	**173.2**
Marine	39	39	28	20	19	18	20	19	24	22	19	18	**23.8**

Data from Oil & Gas Journal Energy Database.
Source: Society of Exploration Geophysicists

Seismic Crew Months Worked
By State and Total U.S.

	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Alabama	26	41	55	35	45	85	14	34	71	23	114	140	136	69	71	89
Alaska	56	83	68	109	113	71	94	65	108	178	113	67	84	41	129	101
Arizona	38	29	15	34	91	20	12	1	4	5	4	18	24	2	0	10
Arkansas	23	60	44	8	36	30	28	19	37	40	17	53	49	46	48	25
California	146	119	94	89	112	118	158	229	251	115	74	67	81	112	178	104
Colorado	159	154	120	60	39	55	39	70	58	88	26	32	72	69	76	37
Florida	11	8	5	7	13	70	79	29	24	84	66	171	148	99	71	45
Illinois	NA	NA	1	1	3	15	15	0	8	3	5	1	62	72	67	23
Indiana	7	0	0	0	5	11	4	5	1	0	0	0	19	18	10	1
Kansas	123	85	28	49	50	48	14	7	5	41	9	2	20	16	34	24
Kentucky	NA	8	4	2	3	16	19	31	26	5	18	22	21	50	65	31
Louisiana	816	785	644	626	746	930	842	595	527	444	322	316	388	216	234	272
Maryland	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0
Michigan	101	40	38	29	23	36	18	11	46	92	133	185	175	232	201	267
Mississippi	415	253	204	240	257	210	189	246	241	215	241	256	310	176	76	160
Montana	97	129	119	181	102	161	65	42	128	88	86	67	73	62	155	40
Nebraska	43	76	47	6	1	9	0	4	0	2	1	0	7	7	0	0
Nevada	NA	21	12	0	11	6	2	11	49	10	25	7	16	9	16	16
New Mexico	319	311	289	302	213	136	152	89	109	75	62	86	98	94	133	74
New York	NA	16	20	7	8	11	15	2	3	9	5	13	22	28	8	14
North Dakota	81	44	48	39	36	59	55	58	73	90	59	48	56	41	72	34
Oklahoma	253	286	227	252	224	197	214	248	238	229	122	205	220	128	153	151
Oregon	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pennsylvania	32	30	23	19	25	16	21	5	12	1	10	46	105	64	44	32
South Dakota	12	4	10	19	8	13	0	1	1	19	6	21	6	8	30	8
Tennessee	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	9
Texas	1,858	1,888	1,664	1,644	1,633	1,635	1,373	1,343	1,110	872	728	663	606	642	886	907
Utah	302	228	146	95	56	63	35	67	95	147	108	71	64	51	80	65
Virginia	NA	6	2	4	27	5	1	0	0	0	1	8	5	1	8	0
West Virginia	21	20	25	23	0	25	20	17	13	0	17	25	52	56	45	31
Wyoming	229	249	222	173	140	242	252	222	112	132	91	126	126	264	363	353
Undesignated Land	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	114
Total U.S.	5,207	5,024	4,231	4,174	4,406	4,471	3,835	3,496	3,390	3,259	2,521	2,755	3,140	2,999	3,663	3,416

Seismic Crew Months Worked
By State and Total U.S.

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	81	13	32	50	126	156	116	105	157	78
Alaska	54	24	16	30	37	82	129	58	79	48
Arizona	0	1	8	54	35	33	9	4	7	4
Arkansas	32	45	48	35	37	67	117	117	40	57
California	109	65	119	122	157	192	221	186	152	149
Colorado	53	42	61	58	87	56	141	176	208	131
Florida	19	17	18	17	21	42	20	37	10	18
Illinois	5	4	3	10	5	9	16	11	13	11
Indiana	1	0	0	0	6	0	1	3	13	3
Kansas	36	28	64	88	76	65	98	75	114	69
Kentucky	11	7	1	7	23	12	4	24	3	3
Louisiana	340	318	560	665	654	501	563	423	436	280
Maryland	3	1	0	1	4	6	2	2	1	0
Michigan	266	180	244	111	145	239	159	160	144	241
Mississippi	163	199	173	154	168	175	180	124	85	78
Montana	85	57	155	135	202	388	224	156	125	43
Nebraska	3	5	2	24	13	17	20	14	16	8
Nevada	12	38	45	51	47	41	61	39	54	60
New Mexico	79	53	89	85	120	136	156	116	114	63
New York	15	12	2	2	11	7	7	7	12	9
North Dakcta	44	96	269	269	242	268	252	114	74	79
Oklahoma	90	103	234	240	169	301	256	316	231	202
Oregon	NA	9	4	0	9	27	27	13	33	19
Pennsylvania	25	21	41	33	39	49	37	27	3	17
South Dakota	0	1	63	3	2	3	9	14	4	0
Tennessee	5	8	9	26	30	34	24	17	19	4
Texas	914	722	1,095	1,213	1,438	1,745	1,583	1,353	1,199	932
Utah	65	71	163	106	158	122	127	111	121	29
Virginia	3	0	4	17	24	31	18	9	3	6
West Virginia	13	8	11	15	24	23	9	17	17	4
Wyoming	239	183	211	366	274	317	253	323	306	163
Undesignated Land	56	502	95	91	190	240	194	147	226	14
Total U.S.	3,140	3,063	4,148	4,400	4,962	5,877	5,676	4,943	4,679	3,494

Data from Oil & Gas Journal Energy Database.
Source: independent Petroleum Association of America from Society of Exploration Geophysicists

Well Servicing Rigs
Total U.S.

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1975													
Available	2,521	2,529	2,536	2,528	2,527	2,547	2,578	2,581	2,579	2,622	3,009	3,412	**2,664**
Working	2,312	2,282	2,299	2,282	2,126	2,172	2,099	2,121	2,202	2,179	2,505	2,675	**2,271**
1976													
Available	3,476	3,469	3,468	3,466	3,469	3,471	3,471	3,481	3,492	3,485	3,483	3,479	**3,476**
Working	2,612	2,490	2,521	2,597	2,575	2,607	2,606	2,656	2,652	2,639	2,601	2,660	**2,601**
1977													
Available	3,483	3,484	3,487	3,493	3,495	3,556	3,564	3,575	3,619	3,633	3,622	3,661	**3,556**
Working	2,474	2,628	2,695	2,804	2,760	2,895	2,929	2,942	2,964	2,973	2,968	2,898	**2,828**
1978													
Available	3,677	3,740	3,695	3,784	3,841	3,847	3,849	3,876	3,872	3,898	3,909	4,053	**3,837**
Working	2,810	2,906	2,899	2,997	2,996	2,987	3,006	3,089	3,073	3,078	2,958	3,063	**2,989**
1979													
Available	4,095	4,124	4,115	4,857	4,857	4,868	4,868	4,876	4,883	4,876	4,876	4,876	**4,681**
Working	3,094	2,698	2,765	3,034	3,369	3,506	3,572	3,621	3,673	3,954	3,795	3,709	**3,399**
1980													
Available	4,877	4,877	4,929	4,929	4,928	4,939	4,901	4,983	4,983	4,983	4,983	4,983	**4,941**
Working	3,855	3,923	4,010	3,871	4,032	4,112	4,092	4,155	4,277	4,290	4,281	4,172	**4,089**
1981													
Available	4,983	4,983	4,983	5,097	5,407	5,878	5,984	5,972	5,972	6,005	6,005	6,124	**5,616**
Working	4,209	4,359	4,238	4,430	4,749	5,093	5,172	5,196	5,164	5,142	5,165	5,279	**4,850**
1982													
Available	6,367	6,390	6,421	6,421	6,492	6,547	6,558	6,629	6,652	6,659	7,815	7,814	**6,730**
Working	5,368	5,220	4,808	4,334	4,328	4,005	3,846	3,779	3,726	3,762	3,933	3,865	**4,248**
1983													
Available	7,810	7,855	7,843	7,881	7,882	7,890	7,891	7,869	7,859	7,852	7,849	7,849	**7,861**
Working	3,786	3,629	3,537	3,413	3,340	3,313	3,431	3,868	3,927	4,024	4,262	4,255	**3,732**
1984													
Available	7,849	7,855	7,925	7,925	8,054	8,054	8,063	8,056	8,030	8,030	8,009	8,009	**7,998**
Working	4,240	4,337	3,989	3,859	4,224	4,864	5,100	5,061	5,157	5,052	5,075	4,998	**4,663**
1985													
Available	8,007	8,007	7,975	7,975	7,975	7,975	7,975	8,048	8,048	8,054	8,016	8,025	**8,007**
Working	4,912	4,856	4,626	4,538	4,655	4,673	4,616	4,845	4,807	4,729	1,745	4,582	**4,715**
1986													
Available	8,025	8,015	8,015	7,989	7,949	7,949	7,949	7,949	7,939	7,909	7,909	7,909	**7,959**
Working	4,582	4,498	3,450	2,942	2,733	2,644	2,656	2,598	2,477	2,468	2,582	2,744	**3,031**

Data from Oil & Gas Journal Energy Database.
Source: Association of Oilwell Servicing Contractors

Well Permit Applications
Selected States

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1980													
California	117	267	330	240	375	234	269	388	266	336	269	202	**3,293**
Kansas	1,126	756	1,019	1,139	1,395	1,950	996	1,260	1,442	1,456	1,846	1,414	**15,799**
Louisiana	415	350	422	446	483	524	668	624	643	541	440	681	**6,237**
Oklahoma	1,240	1,286	1,357	1,176	1,390	1,448	1,669	1,378	1,871	1,513	1,656	1,877	**17,861**
Texas	2,297	2,016	2,198	2,425	2,147	2,280	2,438	2,444	2,627	2,720	2,429	3,278	**29,299**
Wyoming	189	102	155	155	149	151	177	210	234	196	231	168	**2,117**
1981													
California	405	483	397	355	455	269	243	382	192	420	284	294	**4,179**
Kansas	2,102	1,506	1,576	2,265	1,547	1,669	1,764	1,435	2,003	1,637	1,369	1,680	**20,553**
Louisiana	421	408	611	550	474	462	612	562	552	549	491	589	**6,281**
Oklahoma	2,034	1,804	2,222	2,053	1,880	1,797	1,939	1,617	1,945	1,567	1,567	2,159	**22,584**
Texas	2,766	2,693	3,097	3,054	2,693	3,390	2,949	3,154	2,864	2,892	2,681	2,073	**34,306**
Wyoming	105	233	210	216	255	126	242	171	212	301	174	210	**2,455**
1982													
California	349	317	273	176	229	196	240	155	254	355	239	244	**3,027**
Kansas	1,480	991	1,449	1,501	1,032	1,100	1,110	1,007	1,213	1,171	1,141	1,323	**14,518**
Louisiana	391	404	375	457	447	532	412	425	465	401	441	431	**5,181**
Oklahoma	1,653	1,947	1,871	1,521	1,417	1,415	1,290	1,226	1,144	1,394	1,325	1,517	**17,720**
Texas	2,604	2,096	2,824	2,106	2,041	2,353	2,021	2,257	2,413	2,372	2,705	2,290	**28,082**
Wyoming	220	115	229	188	156	102	161	157	237	137	191	136	**2,029**
1983													
California	175	225	161	203	216	273	262	227	289	357	252	454	**3,094**
Kansas	852	702	977	802	1,102	1,097	1,271	1,241	1,166	1,292	1,098	999	**12,599**
Louisiana	336	289	318	332	382	405	509	536	536	604	678	575	**5,500**
Oklahoma	1,318	838	1,264	922	1,083	1,195	1,087	1,556	1,276	1,397	1,434	1,549	**14,919**
Texas	2,137	1,922	2,330	2,061	2,279	2,479	2,574	*10,021	1,488	1,970	2,275	2,263	**33,799**
Wyoming	89	87	93	133	35	253	156	200	117	223	186	151	**1,723**
1984													
California	232	527	535	286	264	470	302	419	402	523	253	279	**4,492**
Kansas	831	946	868	980	1,319	1,164	1,178	1,348	1,135	1,345	1,194	955	**13,263**
Louisiana	497	401	458	445	536	598	768	916	692	817	905	603	**7,636**
Oklahoma	1,049	1,178	1,282	1,132	1,211	1,197	1,361	1,375	1,225	1,461	1,344	1,380	**15,195**
Texas	2,059	2,255	2,538	2,884	3,355	2,842	2,937	3,113	2,732	3,149	3,166	3,118	**34,148**
Wyoming	158	154	126	110	170	185	178	192	178	240	167	156	**2,014**
1985													
California	276	412	324	313	387	305	556	440	247	360	393	269	**4,282**
Kansas	795	584	819	817	855	840	993	978	905	781	662	656	**9,685**
Louisiana	482	303	488	397	354	507	619	540	490	498	298	434	**5,410**
Oklahoma	1,015	824	934	1,046	1,000	1,149	1,149	1,206	953	1,123	1,010	1,152	**12,561**
Texas	2,027	2,016	2,301	2,310	2,125	1,939	2,101	2,162	2,057	2,291	2,210	2,262	**25,801**
Wyoming	121	110	149	139	181	125	185	166	207	130	128	99	**1,740**
1986													
California	343	303	535	77	212	90	98	151	273	250	346	97	**2,775**
Kansas	609	393	336	239	268	244	254	234	350	306	302	421	**3,956**
Louisiana	313	284	242	168	129	112	149	180	145	199	145	212	**2,278**
Oklahoma	804	716	619	489	391	376	464	513	535	512	506	660	**6,585**
Texas	1,864	1,417	1,181	864	777	687	1,151	763	896	1,022	887	1,082	**12,591**
Wyoming	111	66	48	61	42	41	76	75	72	60	69	57	**778**

* Rise in number of permits is due to fee increase to be effective Sept. 1, 1983.

Data from Oil & Gas Journal Energy Database.
Source: State agencies

Total Acreage Under Lease
By State and Total U.S.
Thousands of Acres

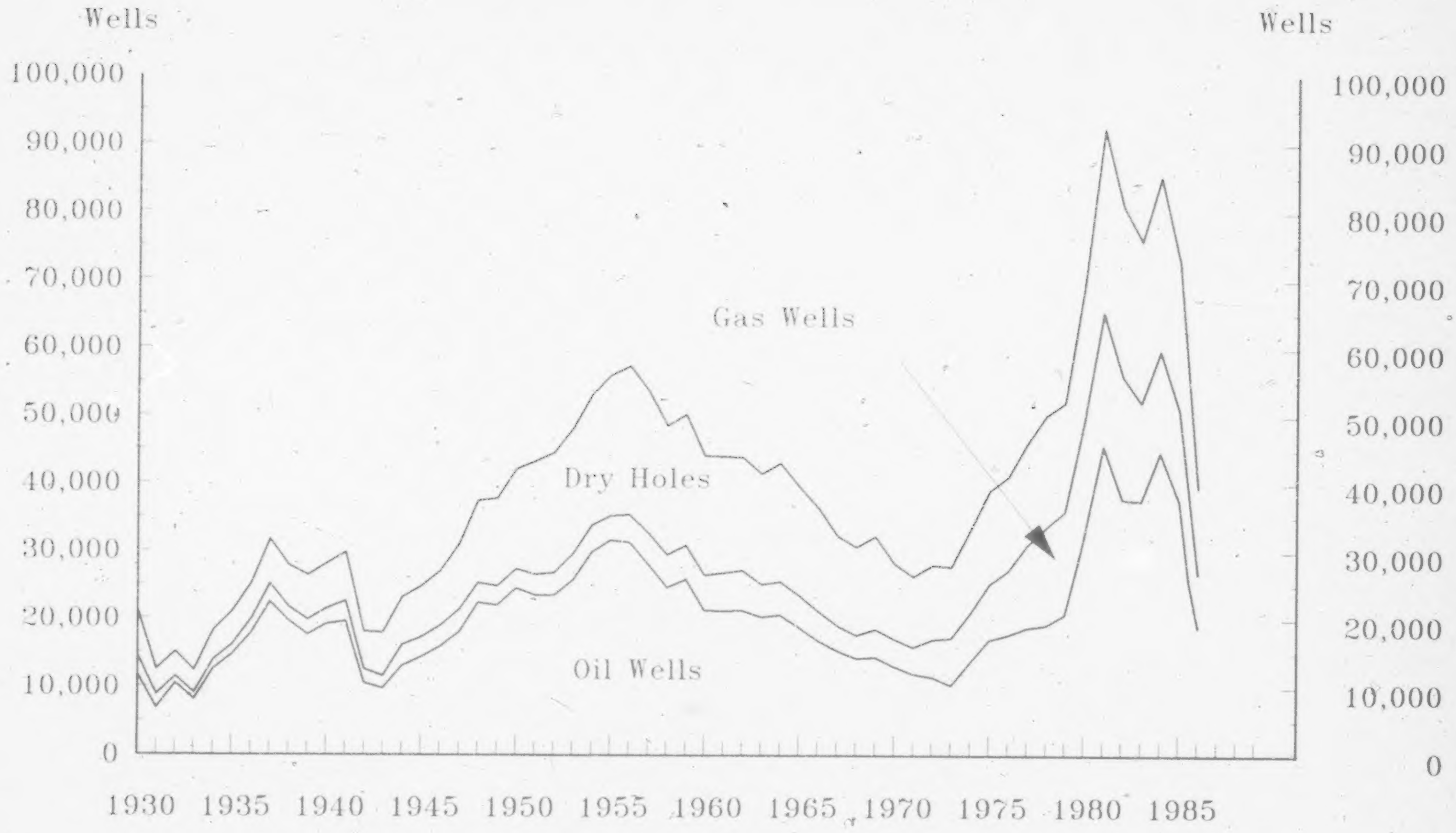
	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Alabama	3,141	3,980	4,200	4,450	4,060	4,274	4,173	4,497	5,512	7,352
Alaska	10,319	9,289	8,802	8,607	9,095	8,157	7,616	5,671	5,131	3,744
Arizona	7,006	8,006	8,006	8,006	9,106	9,106	9,106	9,246	10,975	11,945
Arkansas	6,765	7,134	5,560	7,336	7,612	7,578	7,899	8,146	7,917	7,982
California	4,393	3,374	3,698	3,593	5,059	4,458	4,288	3,666	3,554	4,040
Colorado	29,100	32,400	32,361	33,043	35,860	36,175	36,350	35,148	35,200	34,747
Connecticut	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Delaware	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Florida	3,171	5,860	7,136	6,857	4,869	3,529	3,087	2,654	2,848	2,805
Georgia	NA	NA	NA	NA	NA	158	67	17	47	92
Idaho	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,103
Illinois	885	920	3,426	4,329	4,133	3,835	4,391	3,891	3,651	3,905
Indiana	2,971	2,947	3,108	3,134	3,160	3,212	3,314	3,517	3,517	3,725
Iowa	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kansas	4,033	4,288	4,406	4,925	6,587	7,178	7,797	10,955	10,955	12,984
Kentucky	3,175	3,380	3,380	3,440	3,440	3,500	3,560	3,714	3,714	4,083
Louisiana	7,408	7,398	7,085	8,106	8,820	9,189	14,977	14,786	17,621	14,767
Maryland	162	162	163	163	163	163	204	204	286	364
Massachusetts	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Michigan	6,388	10,395	12,910	12,824	12,338	11,657	11,879	12,293	12,540	10,785
Minnesota	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mississippi	4,547	6,779	7,748	8,681	8,188	7,396	7,346	7,118	7,651	7,951
Missouri	102	102	252	376	401	401	302	402	452	502
Montana	28,910	29,220	29,220	29,422	31,900	32,317	32,682	32,430	33,953	34,110
Nebraska	9,888	10,188	10,188	10,088	10,475	10,177	10,180	10,441	10,386	10,548
Nevada	5,001	5,001	5,001	6,501	6,701	6,501	6,501	9,822	12,753	15,719
New Hampshire	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
New Jersey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
New Mexico	24,350	25,575	26,055	26,330	28,500	28,775	29,035	29,514	29,350	29,350
New York	725	4,300	5,150	4,900	4,190	4,190	4,700	4,965	5,070	4,975
North Carolina	NA	NA	NA	NA	NA	2,200	2,200	327	324	379
North Dakota	20,592	20,592	20,592	20,593	21,510	21,612	21,752	22,355	22,653	22,752
Ohio	14,947	14,962	15,011	15,040	15,082	15,126	15,200	15,191	15,188	15,429
Oklahoma	6,102	3,764	7,379	8,288	10,931	11,170	11,050	13,056	14,960	16,087
Oregon	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,501
Pennsylvania	12,470	14,065	14,835	15,405	15,413	15,426	15,445	15,917	16,133	16,632
South Carolina	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
South Dakota	6,003	6,004	6,004	6,105	6,706	6,707	6,732	6,568	6,442	6,821
Tennessee	1,501	1,501	1,502	2,202	2,403	2,252	2,079	1,391	2,043	2,988
Texas	46,032	42,903	42,492	46,271	50,658	44,145	47,491	47,819	49,129	51,670
Utah	7,780	20,790	22,854	2,301	26,000	26,160	26,265	28,675	28,130	28,891
Vermont	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Virginia	870	825	830	841	906	938	872	1,020	1,206	2,024
West Virginia	7,800	8,300	10,700	11,000	11,222	11,830	11,838	12,158	12,972	13,542
Wisconsin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wyoming	36,110	36,320	36,332	36,450	38,600	38,790	38,930	38,998	37,620	39,597
Total U.S.	**332,647**	**350,725**	**366,386**	**380,313**	**404,087**	**398,280**	**400,581**	**416,543**	**431,192**	**448,887**

Total Acreage Under Lease
By State and Total U.S.
Thousands of Acres

	1980	1981	1982	1983	1984	1985
Alabama	8,985	9,186	9,298	9,416	9,182	8,010
Alaska	3,528	4,131	5,464	10,575	11,240	12,582
Arizona	12,005	20,146	22,018	23,731	23,731	23,747
Arkansas	9,133	10,141	12,087	13,300	12,998	10,694
California	4,106	5,055	6,019	857	9,250	5,810
Colorado	31,809	30,639	31,577	35,532	35,531	35,622
Connecticut	NA	NA	NA	NA	83	12
Delaware	NA	NA	NA	NA	136	127
Florida	3,005	3,715	3,755	5,130	2,637	2,639
Georgia	1,450	1,950	2,620	2,960	2,800	2,291
Idaho	1,079	1,470	1,208	871	913	600
Illinois	4,413	4,673	4,468	4,629	4,735	5,900
Indiana	8,779	8,833	8,848	8,963	8,963	8,000
Iowa	NA	NA	NA	300	5,000	5,000
Kansas	13,222	13,795	16,497	18,672	19,750	16,380
Kentucky	4,950	5,225	5,500	5,525	6,350	5,458
Louisiana	15,962	16,100	13,550	13,672	14,500	14,080
Maryland	449	494	435	370	314	316
Massachusetts	NA	NA	9	9	12	15
Michigan	12,550	14,074	14,324	14,577	14,756	11,931
Minnesota	NA	NA	80	80	570	900
Mississippi	7,951	11,927	11,944	11,479	10,402	9,500
Missouri	504	612	633	713	713	712
Montana	36,060	38,170	42,023	44,050	44,050	44,111
Nebraska	12,534	12,570	14,416	13,411	13,411	13,508
Nevada	17,856	23,554	31,647	29,853	29,853	29,876
New Hampshire	NA	106	302	200	144	145
New Jersey	NA	NA	NA	NA	132	75
New Mexico	30,130	30,020	31,413	42,525	42,621	42,688
New York	5,500	5,710	5,850	5,900	5,600	5,610
North Carolina	94	552	375	375	457	500
North Dakota	22,299	22,920	22,256	23,300	23,300	23,324
Ohio	16,527	16,520	16,448	16,443	15,209	14,886
Oklahoma	16,887	17,402	17,692	18,990	19,200	20,435
Oregon	4,001	4,001	9,002	7,002	5,025	4,460
Pennsylvania	17,010	17,140	17,540	17,672	17,997	18,042
South Carolina	100	200	203	583	1,760	1,300
South Dakota	7,458	8,120	7,027	7,325	8,120	8,123
Tennessee	2,972	4,327	4,929	4,431	3,827	3,115
Texas	60,075	64,350	64,723	70,300	68,374	60,670
Utah	29,519	30,900	32,014	38,230	38,230	38,258
Vermont	NA	270	360	412	17	5
Virginia	3,053	3,457	3,159	3,376	3,236	2,586
West Virginia	13,934	14,134	13,447	13,757	13,408	12,673
Wisconsin	NA	NA	NA	20	110	150
Wyoming	38,765	36,850	34,227	38,999	38,999	39,064
Total U.S.	**472,704**	**513,440**	**539,386**	**586,223**	**587,572**	**566,930**

Data from Oil & Gas Journal Energy Database.
Source: Independent Petroleum Association of America

U.S. Well Completions By Type



Source: AAPG, OGJ, API

Well Completions* by Type
Total U.S.

	Oil Wells	Gas Wells	Dry Holes	Total Wells+	Success Ratio
1900	13,671	17	3,389	17,077	80.2%
1901	11,811	10	3,276	15,097	78.3%
1902	13,019	15	3,440	16,474	79.1%
1903	15,177	322	3,670	19,169	80.9%
1904	16,008	449	4,088	20,545	80.1%
1905	12,601	382	3,583	16,566	78.4%
1906	14,550	493	3,787	18,830	79.9%
1907	15,534	555	3,579	19,668	81.8%
1908	13,210	485	3,214	16,909	81.0%
1909	13,875	1,048	3,404	18,327	81.4%
1910	11,018	1,500	2,422	14,940	83.8%
1911	9,825	1,580	2,363	13,768	82.8%
1912	12,514	1,811	2,855	17,180	83.4%
1913	19,101	2,207	4,282	25,590	83.3%
1914	16,668	2,327	4,142	23,137	82.1%
1915	9,154	2,022	2,981	14,157	78.9%
1916	18,777	1,803	4,039	24,619	83.6%
1917	16,590	1,966	4,851	23,407	79.3%
1918	17,845	2,229	5,613	25,687	78.1%
1919	21,052	2,135	5,986	29,173	79.5%
1920	24,273	2,274	7,364	33,911	78.3%
1921	14,666	2,111	5,160	21,937	76.5%
1922	17,333	2,024	5,332	24,689	78.4%
1923	16,206	2,367	5,865	24,438	76.0%
1924	14,587	2,257	5,044	21,888	77.0%
1925	16,559	2,330	6,734	25,623	73.7%
1926	19,013	2,341	7,965	29,319	72.8%
1927	14,442	2,491	7,210	24,143	70.1%
1928	12,526	2,727	7,078	22,331	68.3%
1929	15,572	2,870	7,914	26,356	70.0%
1930	11,640	2,866	6,734	21,240	68.3%
1931	6,788	1,965	3,659	12,432	70.6%
1932	10,444	1,027	3,569	15,040	76.3%
1933	8,068	932	3,312	12,312	73.1%
1934	12,520	1,368	4,309	18,197	76.3%
1935	14,663	1,401	4,911	20,975	76.6%
1936	17,800	2,070	5,297	25,167	79.0%
1937	22,386	2,676	6,560	31,622	79.3%
1938	18,598	2,066	6,141	26,805	77.1%
1939	17,625	2,198	6,474	26,297	75.4%
1940	19,125	2,352	6,617	28,094	76.4%
1941	19,552	3,007	7,128	29,687	76.0%
1942	10,492	2,068	5,504	18,064	69.5%
1943	9,717	1,782	6,385	17,884	64.3%

	Oil Wells	Gas Wells	Dry Holes	Total Wells+	Success Ratio
1944	13,028	3,067	7,009	23,104	69.7%
1945	14,297	2,898	7,471	24,666	69.7%
1946	15,851	3,090	8,047	26,988	70.2%
1947	17,961	3,307	9,625	30,893	68.8%
1948	22,340	2,906	12,112	37,358	67.6%
1949	21,905	2,886	12,842	37,633	65.9%
1950	24,416	2,837	14,786	42,039	64.8%
1951	23,437	3,027	16,704	43,168	61.3%
1952	23,448	3,246	17,714	44,408	60.1%
1953	25,748	3,801	18,509	48,058	61.5%
1954	29,776	3,974	19,285	53,035	63.6%
1955	31,540	3,614	20,742	55,896	62.9%
1956	31,196	4,115	21,871	57,182	61.8%
1957	28,012	4,620	20,983	53,615	60.9%
1958	24,578	4,803	19,043	48,424	60.7%
1959	25,800	5,029	19,265	50,094	61.5%
1960	21,186	5,258	17,574	44,018	60.1%
1961	21,101	5,664	17,106	43,871	61.0%
1962	21,249	5,848	16,682	43,779	61.9%
1963	20,288	4,751	16,347	41,386	60.5%
1964	20,620	4,855	17,488	42,963	59.3%
1965	18,761	4,724	16,024	39,509	59.4%
1966	16,780	4,377	15,227	36,384	58.1%
1967	15,329	3,659	13,246	32,234	58.9%
1968	14,227	3,385	12,987	30,599	57.6%
1969	14,368	4,083	13,736	32,187	57.3%
1970	13,043	4,031	11,099	28,173	60.6%
1971	11,903	3,983	10,382	26,268	60.5%
1972	11,437	5,484	11,013	27,934	60.6%
1973	10,251	6,975	10,466	27,692	62.2%
1974	13,664	7,168	12,205	33,037	63.1%
1975	16,979	8,169	13,736	38,884	64.7%
1976	17,697	9,438	13,805	40,940	66.3%
1977	18,700	12,119	15,036	45,855	67.2%
1978	19,065	14,405	16,591	50,061	66.9%
1979	20,689	15,166	16,035	51,890	69.1%
1980	32,120	17,132	20,234	69,486	70.9%
1981	42,520	19,742	26,972	89,234	69.8%
1982	37,680	18,151	25,083	80,914	69.0%
1983	35,991	14,014	23,044	73,049	68.5%
1984	43,515	14,627	24,864	83,006	70.0%
1985	36,370	12,899	21,434	70,703	69.7%
1986	18,802	7,940	12,681	39,423	67.8%

* Wells are as reported for 1900-1969. Wells are on an as completed basis for 1970-1984. Wells for 1985-1986 are API estimates of actual wells as completed.

+ Excluding service wells and stratigraphic and core tests

Data from Oil & Gas Journal Energy Database

Source: -Bureau of Mines, American Association of Petroleum Geologists, Oil & Gas Journal, American Petroleum Institute

Well Completions by State
As Completed*

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Alabama	46	79	119	111	86	130	116	136	161	219
Alaska	77	33	30	33	39	69	77	73	76	96
Arizona	13	15	23	10	2	2	2	4	8	4
Arkansas	328	351	344	292	325	330	438	491	450	504
California	2,316	2,095	1,674	1,393	2,397	2,694	2,808	2,553	2,485	2,340
North+	136	149	173	214	219	211	190	165	184	154
Central Coastal+	312	284	212	221	287	303	288	315	208	265
East Central+	1,442	1,375	1,022	797	1,657	1,962	2,074	1,864	1,871	1,672
South+	282	211	187	96	155	152	228	146	137	126
Offshore+	144	76	80	65	79	66	28	63	85	123
Colorado	710	990	975	945	919	1,172	1,152	1,212	1,156	1,069
Florida	29	42	109	60	40	52	26	32	29	32
Georgia	3	1	2	4	5	3	3	0	1	0
Idaho	0	0	1	5	2	1	2	1	7	3
Illinois	753	622	655	656	855	1,129	1,484	1,143	1,202	1,327
Indiana	307	228	284	259	389	400	509	621	685	494
Iowa	5	1	0	0	2	0	0	1	0	0
Kansas	2,574	2,398	2,498	2,244	2,960	3,728	3,705	4,060	4,576	4,436
Kentucky	892	829	817	652	759	1,013	1,189	1,095	1,077	4,195
Louisiana	3,084	3,078	3,244	2,719	2,833	3,105	3,373	3,439	3,817	4,063
North+	763	1,028	1,086	834	1,255	1,257	1,732	1,637	1,882	2,132
South+	1,368	1,189	1,150	1,125	958	1,169	1,069	1,017	1,212	1,208
Offshore+	953	861	1,008	760	620	679	572	785	723	723
Maryland	0	0	1	1	1	3	3	3	3	0
Massachusetts	0	0	0	0	0	0	1	0	0	0
Michigan	281	306	317	307	441	536	530	545	539	538
Mississippi	563	524	455	367	440	454	504	539	496	534
Missouri	15	15	4	13	96	95	44	53	49	85
Montana	473	485	733	685	792	858	773	679	778	822
Nebraska	251	215	275	176	263	347	312	425	451	450
Nevada	9	6	2	0	2	5	8	18	22	12
New Jersey	0	0	0	0	0	0	1	0	0	0
New Mexico	774	867	1,093	1,083	1,193	1,173	1,042	1,407	1,625	1,656
New York	110	129	144	222	373	610	519	485	427	513
North Carolina	0	12	2	7	3	1	1	0	0	0
North Dakota	145	158	94	129	145	205	245	242	341	440
Ohio	1,346	1,256	1,548	1,724	1,552	1,558	2,205	2,768	3,333	3,657
Oklahoma	2,783	2,444	2,502	2,470	3,386	3,960	4,741	5,344	6,164	6,980
Oregon	0	2	0	0	0	0	0	2	0	21
Pennsylvania	759	786	1,100	1,299	1,559	1,270	1,316	1,569	2,182	2,295
South Carolina	0	0	0	0	0	0	0	0	0	0
South Dakota	65	32	19	17	17	27	36	43	50	49
Tennessee	98	170	95	99	181	232	199	287	264	348

Well Completions by State
As Completed*

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Texas	8,130	7,737	8,365	8,656	10,321	13,276	12,982	15,114	15,863	15,810
Dist. 1+	525	693	649	572	630	912	1,222	1,257	939	1,010
Dist. 2+	343	368	460	543	692	826	734	914	1,033	810
Dist. 3+	802	778	852	831	1,013	1,072	1,061	1,261	1,337	1,391
Dist. 4+	838	692	794	761	904	1,077	1,153	1,230	1,307	1,363
Dist. 5+	156	131	118	100	140	173	193	167	254	260
Dist. 6+	363	374	314	312	329	419	399	414	612	650
Dist. 7B+	965	926	1,029	944	1,372	1,897	1,357	2,402	2,610	2,449
Dist. 7C+	435	477	673	858	979	1,197	1,114	1,462	1,321	1,406
Dist. 8+	1,309	1,275	1,334	1,412	1,432	2,031	1,933	1,839	1,826	1,864
Dist. 8A+	1,171	860	768	931	973	1,277	1,082	1,297	1,463	1,282
Dist. 9+	913	928	1,007	877	1,215	1,680	1,880	2,083	2,134	2,385
Dist. 10+	253	197	309	435	476	549	550	477	720	730
Offshore+	57	38	58	80	166	166	304	311	307	210
Utah	87	98	153	208	211	196	131	305	268	284
Virginia	0	7	16	20	45	36	11	25	31	25
Washington	12	0	0	0	0	0	3	0	0	6
West Virginia	1,111	768	669	858	741	772	1,035	1,267	1,537	1,612
Wyoming	1,393	903	1,058	938	1,026	1,327	1,059	1,281	1,489	1,392
Off. Fed. Waters	0	0	0	0	14	35	29	46	29	51
Alaska+	0	0	0	0	0	1	1	11	4	3
Atlantic Coast+	0	0	0	0	0	0	0	1	7	18
Gulf of Mexico+	0	0	0	0	14	34	28	34	18	30
Pacific Coast+	0	0	0	0	0	0	0	0	0	0
Total U.S.	29,542	27,682	29,420	28,662	34,415	40,804	42,614	47,308	51,671	53,362
Total Offshore	1,173	975	1,153	915	890	960	951	1,224	1,155	1,115

Well Completions by State
As Completed*

	1980	1981	1982	1983	1984	1985	1986
Alabama	196	222	214	217	383	358	218
Alaska	125	172	227	163	186	28	176
Arizona	6	14	14	12	2	3	5
Arkansas	612	889	825	900	897	1,017	474
California	3,039	3,838	3,097	2,733	3,898	3,405	2,024
North+	247	288	224	215	290	246	151
Central Coastal+	343	355	217	169	163	159	98
East Central+	2,126	2,702	2,214	2,104	3,201	2,790	1,651
South+	186	300	211	142	112	120	87
Offshore+	137	193	231	103	132	90	37
Colorado	1,414	1,977	1,832	1,484	1,806	1,543	990
Florida	21	25	21	20	24	21	14
Georgia	1	2	1	0	3	1	2
Idaho	5	5	6	4	3	3	4
Illinois	2,482	3,436	3,253	3,035	2,941	2,212	1,025
Indiana	751	828	1,051	1,022	990	954	363
Iowa	0	0	0	0	0	1	3
Kansas	6,266	8,551	8,561	7,265	6,550	5,453	2,852
Kentucky	2,171	3,062	3,804	4,232	3,844	2,436	703
Louisiana	5,147	5,503	5,117	5,048	6,891	5,428	2,512
North+	3,187	3,522	3,225	3,050	4,553	3,446	1,403
South+	1,316	1,301	1,303	1,197	1,437	1,351	730
Offshore+	644	680	589	801	901	631	379
Maryland	1	1	0	0	2	0	0
Massachusetts	0	0	0	0	0	0	0
Michigan	676	787	900	772	1,121	854	483
Mississippi	680	788	584	550	615	571	293
Missouri	266	397	305	243	260	25	5
Montana	902	1,289	816	511	820	601	332
Nebraska	514	608	414	369	377	274	144
Nevada	21	34	13	8	37	34	18
New Jersey	0	0	0	0	0	0	0
New Mexico	2,126	2,527	2,100	1,527	1,668	1,737	922
New York	507	578	668	413	609	422	180
North Carolina	0	0	0	1	1	0	0
North Dakota	619	879	696	489	700	496	212
Ohio	5,093	6,082	4,814	4,288	4,958	3,686	1,574
Oklahoma	10,158	13,125	11,390	8,943	9,579	7,493	4,149
Oregon	41	20	8	0	1	5	10
Pennsylvania	3,261	3,962	3,399	2,465	3,533	2,764	665
South Carolina	0	0	0	0	1	0	0
South Dakota	75	90	53	52	44	49	17
Tennessee	550	628	627	517	366	220	125

Well Completions by State
As Completed*

	1980	1981	1982	1983	1984	1985	1986
Texas	20,038	26,442	25,439	24,089	27,696	24,154	12,833
Dist. 1+	1,732	2,760	2,528	2,739	3,284	2,640	1,580
Dist. 2+	849	968	829	698	730	539	445
Dist. 3+	2,032	2,813	2,032	1,915	2,132	1,709	850
Dist. 4+	1,370	1,430	1,317	1,294	1,515	1,435	804
Dist. 5+	379	637	771	580	546	577	358
Dist. 6+	705	1,033	1,226	1,081	1,126	1,057	638
Dist. 7B+	3,010	4,627	4,467	4,390	5,065	4,173	2,273
Dist. 7C+	1,768	2,107	2,164	1,781	2,006	1,725	877
Dist. 8+	2,338	2,607	2,763	2,818	3,481	3,484	1,799
Dist. 8A+	1,620	2,130	2,072	1,881	2,479	2,065	939
Dist. 9+	3,201	4,058	3,946	3,742	3,821	3,474	1,783
Dist. 10+	789	1,033	1,084	1,008	1,322	1,062	413
Offshore+	245	239	240	162	189	214	74
Utah	291	555	482	415	493	354	181
Virginia	27	32	97	35	67	88	97
Washington	3	0	8	5	7	4	0
West Virginia	1,924	2,170	2,114	1,619	1,919	1,374	597
Wyoming	1,518	2,043	1,719	1,508	1,804	1,496	777
Off. Fed. Waters	35	39	60	78	100	130	94
Alaska+	4	0	1	0	2	4	3
Atlantic Coast+	4	5	7	1	3	0	0
Gulf of Mexico+	27	34	48	55	83	122	88
Pacific Coast+	0	0	4	22	12	4	3
Undesignated@	0	764	697	1,585	1,864	1,599	1,136
Total U.S.	71,562	92,364	85,426	76,617	85,551	70,195	36,209
Total Offshore	1,067	1,156	1,134	1,[illegible]52	1,325	1,071	596

* Subject to revision as additional wells are reported which were completed in recent years.

+ Included in total for state or area

@ State breakdowns unavailable on these wells

Data from Oil & Gas Journal Energy Database
Source: American Petroleum Institute

Footage Drilled by State
As Completed*
Thousands of feet

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Alabama	493.1	589.3	1,266.0	1,117.4	841.3	1,216.0	1,182.1	1,115.6	1,059.2	1,455.2
Alaska	815.7	347.2	272.1	304.0	285.4	656.9	760.2	742.7	661.2	990.2
Arizona	48.1	44.0	82.2	47.0	10.3	10.0	8.0	16.8	31.6	13.3
Arkansas	1,715.8	1,921.5	1,952.4	1,658.4	1,747.2	1,671.3	2,058.2	2,420.3	2,220.4	2,470.3
California	6,565.1	5,570.5	4,801.2	4,533.7	6,098.9	6,300.7	6,936.5	6,201.1	6,591.2	6,415.4
North+	849.4	914.9	1,052.4	1,238.6	1,240.6	1,157.0	1,098.7	932.1	1,004.9	943.1
Central Coastal+	1,436.8	1,140.6	919.3	981.7	1,082.9	1,072.9	950.2	1,012.2	663.9	816.6
East Central+	2,602.0	2,440.5	1,906.8	1,716.9	3,024.6	3,438.9	4,003.3	3,581.4	4,079.8	3,714.7
South+	1,081.8	722.8	622.7	380.6	503.6	377.7	738.9	410.1	388.5	446.6
Offshore+	595.1	351.7	300.0	215.9	247.2	254.2	145.4	265.4	453.6	494.4
Colorado	4,062.9	5991.68	5,545.8	5,543.0	5,454.8	6,748.9	5,920.4	6,297.0	5,821.0	5,392.2
Florida	345.8	528.5	1,589.8	776.3	454.3	627.2	308.6	384.5	342.5	409.4
Georgia	13.6	7.1	7.7	25.5	25.3	10.5	9.9	0.0	4.4	0.0
Idaho	0.0	0.0	3.6	39.8	8.5	4.8	17.9	14.3	66.1	30.6
Illinois	1,649.0	1,292.4	1,430.1	1,560.5	2,071.1	2,596.4	3,263.0	3,044.1	3,168.2	3,349.2
Indiana	413.1	312.1	385.3	362.8	601.5	684.8	853.9	1,290.5	1,336.9	906.1
Iowa	10.1	1.6	0.0	0.0	3.4	0.0	0.0	3.3	0.0	0.0
Kansas	7,960.6	7,320.8	8,029.3	7,030.1	8,469.3	10,997.5	11,513.1	13,212.8	15,046.0	14,494.1
Kentucky	1,287.7	1,199.1	1,262.0	1,042.4	1,143.6	1,501.8	1,680.4	1,508.8	1,498.1	1,637.0
Louisiana	26,280.9	24,823.9	25,966.6	22,159.5	19,982.5	22,372.8	21,657.1	23,822.3	27,398.0	28,527.0
North+	2,808.5	3,608.2	3,788.7	3,191.5	4,697.0	4,639.9	5,938.3	6,032.0	6,690.1	7,752.4
South+	13,530.9	12,165.7	12,075.3	11,814.2	9,661.0	11,488.7	10,793.1	10,741.3	13,548.1	13,629.5
Offshore+	9,941.6	9,050.1	10,102.6	7,153.8	5,624.6	6,244.2	4,925.8	7,049.0	7,159.9	7,145.1
Maryland	0.0	0.0	8.1	11.6	5.1	24.1	23.4	22.8	22.8	0.0
Massachusetts	0.0	0.0	0.0	0.0	0.0	0.0	16.0	0.0	0.0	0.0
Michigan	1,066.5	1,273.2	1,518.3	1,600.8	2,176.5	2,514.7	2,359.5	2,516.8	2,438.6	2,370.4
Mississippi	5,045.7	4,680.6	4,042.6	3,293.7	3,571.0	3,608.0	4,105.7	4,552.7	4,480.6	4,713.6
Missouri	9.0	10.2	3.9	17.4	44.8	45.5	23.7	22.7	16.3	20.5
Montana	2,043.3	1,804.7	2,297.0	1,929.2	2,269.4	2,527.1	2,787.9	2,480.1	2,891.6	3,221.1
Nebraska	1,267.5	1,045.7	1,305.6	889.7	1,333.5	1,734.9	1,543.9	2,144.3	2,196.5	1,930.7
Nevada	16.3	50.1	10.5	0.0	18.0	10.1	59.5	83.5	118.7	79.4
New Jersey	0.0	0.0	0.0	0.0	0.0	0.0	16.0	0.0	0.0	0.0
New Mexico	4,377.9	4,606.7	5,830.8	5,774.3	6,637.3	6,637.5	5,355.4	7,592.5	8,826.4	9,364.7
New York	185.1	208.4	219.8	401.4	793.2	1,440.5	1,235.8	1,069.1	923.8	1,156.1
North Carolina	0.0	24.1	6.3	28.1	14.7	5.6	3.7	0.0	0.0	0.0
North Dakota	915.6	986.2	603.6	909.0	1,037.9	1,356.2	1,768.3	1,886.9	2,859.0	3,906.0
Ohio	5,393.0	4,856.0	6,455.1	7,284.9	6,308.0	6,149.9	8,518.3	10,742.0	12,504.5	12,905.1
Oklahoma	13,686.7	12,039.1	12,860.1	13,199.8	17,187.7	19,553.8	23,273.0	26,700.4	30,579.0	33,684.8
Oregon	0.0	3.2	0.0	0.0	0.0	0.0	0.0	10.8	0.0	83.0
Pennsylvania	1,404.4	1,331.4	2,125.4	2,921.6	3,315.3	3,103.5	2,863.1	3,855.9	5,438.4	5,736.6
South Carolina	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South Dakota	221.7	145.9	65.1	92.9	85.3	141.0	209.6	327.8	315.6	238.8
Tennessee	124.2	242.0	114.5	146.8	286.4	356.1	333.9	475.8	449.9	589.8

Footage Drilled by State
As Completed*
Thousands of feet

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Texas	40,898.7	38,931.0	42,458.7	46,438.1	53,010.0	66,590.1	68,371.3	79,108.6	85,765.5	83,267.7
Dist. 1+	2,034.5	2,773.4	2,187.2	2,185.4	2,226.1	3,251.2	5,906.8	6,367.1	4,051.4	3,244.1
Dist. 2+	2,233.9	2,380.6	2,922.6	3,201.5	4,101.0	5,055.5	4,454.1	5,510.8	6,366.5	4,992.2
Dist. 3+	4,741.0	4,652.1	5,460.5	5,662.2	6,338.8	6,960.3	7,287.3	8,787.5	9,552.3	10,355.3
Dist. 4+	5,237.4	4,304.5	5,106.4	4,789.7	5,707.1	6,613.7	7,473.4	8,208.7	9,064.2	9,648.6
Dist. 5+	968.7	801.2	808.0	710.1	799.1	1,021.4	1,064.4	1,092.7	1,648.0	1,783.3
Dist. 6+	1,744.5	1,758.1	1,901.4	1,856.7	2,158.3	2,535.9	2,796.1	3,069.0	4,867.2	5,234.2
Dist. 7B+	2,651.2	2,779.3	2,823.8	2,954.9	4,431.0	6,182.7	4,439.3	7,644.5	8,769.5	7,757.5
Dist. 7C+	2,111.0	2,128.8	3,425.0	4,812.4	5,381.2	6,783.4	6,101.3	7,963.8	7,380.9	7,820.1
Dist. 8+	8,389.3	8,973.5	8,241.8	8,961.6	8,642.9	11,162.3	10,944.2	10,292.6	10,415.5	9,795.2
Dist. 8A+	5,781.5	4,074.5	4,263.3	4,918.1	5,148.2	7,232.3	6,170.2	7,653.0	8,393.1	7,360.2
Dist. 9+	2,683.2	2,524.1	2,665.0	2,774.7	3,670.0	4,414.3	5,351.2	6,321.6	7,281.0	8,148.9
Dist. 10+	1,776.6	1,393.0	2,083.2	2,915.0	3,030.7	3,932.5	3,715.1	3,427.8	5,269.2	5,168.6
Offshore+	545.9	387.9	570.5	696.0	1,375.6	1,444.5	2,667.9	2,769.6	2,607.0	1,959.5
Utah	580.5	687.3	1,285.2	1,786.5	1,692.7	1,581.1	818.2	1,897.9	1,666.3	1,673.4
Virginia	34.2	31.6	67.3	98.6	224.1	168.8	43.5	123.5	147.7	104.0
Washington	0.0	0.0	0.0	0.0	0.0	0.0	7.3	0.0	0.0	2.6
West Virginia	3,534.4	2,314.4	2,080.6	2,673.6	2,275.8	2,282.0	3,234.6	4,183.6	5,279.9	5,643.9
Wyoming	9,500.1	5,445.9	6,556.9	6,176.1	7,060.4	9,286.2	7,464.4	9,274.3	10,040.1	10,026.4
Off. Fed. Waters	0.0	0.0	0.0	0.0	0.0	369.8	259.2	457.9	307.7	543.1
Alaska+	0.0	0.0	0.0	0.0	0.0	5.2	13.8	130.6	50.5	24.4
Atlantic Coast+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.9	108.2	242.2
Gulf of Mexico+	0.0	0.0	0.0	0.0	0.0	364.7	245.4	305.4	149.0	276.5
Pacific Coast+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total U.S.	141,966.5	130,667.1	142,509.6	141,874.4	156,649.9	184,886.2	190,864.6	219,574.3	242,513.5	247,350.8
Total Offshore	11,287.2	9,794.6	11,030.3	8,154.4	7,427.6	8,451.3	8,170.9	10,712.4	10,599.6	10,210.2

Footage Drilled by State
As Completed+
Thousands of feet

	1980	1981	1982	1983	1984	1985	1986
Alabama	1,258.8	1,390.4	1,279.5	1,233.9	1,923.3	1,905.9	1,264.4
Alaska	1,280.1	1,701.9	2,109.6	1,524.1	1,600.5	235.9	1,696.6
Arizona	14.0	67.7	77.5	31.7	4.0	11.3	9.3
Arkansas	3,196.9	4,357.4	4,020.3	4,199.7	4,254.7	4,118.5	1,931.7
California	8,476.5	10,288.2	9,374.4	7,549.7	9,836.8	8,145.5	5,063.1
North+	1,538.5	1,679.4	1,412.8	1,391.0	1,875.6	1,611.6	971.4
Central Coastal+	1,213.8	1,329.3	975.4	671.4	640.0	646.8	494.2
East Central+	4,524.8	5,498.4	5,000.1	4,301.8	6,003.0	4,873.4	3,060.0
South+	639.5	856.3	799.1	562.0	477.0	438.7	303.8
Offshore+	559.9	924.8	1,167.0	623.6	841.2	575.1	233.7
Colorado	7,419.0	11,087.9	10,197.3	8,762.6	10,730.2	9,405.3	6,095.0
Florida	253.9	326.3	281.3	261.9	312.3	281.2	203.5
Georgia	6.9	17.6	8.2	0.0	23.4	2.3	10.1
Idaho	58.5	60.9	64.8	26.0	34.4	34.2	44.1
Illinois	6,250.6	9,237.5	8,315.4	6,892.7	7,129.1	5,209.5	2,226.7
Indiana	1,425.1	1,550.9	1,991.1	1,885.2	1,805.0	1,765.3	564.9
Iowa	0.0	0.0	0.0	0.0	0.0	3.3	6.8
Kansas	19,958.7	28,498.1	26,152.1	22,018.4	23,129.0	19,285.9	9,257.9
Kentucky	2,919.6	4,370.2	5,433.7	5,744.2	5,333.9	3,397.0	1,065.4
Louisiana	31,891.9	34,112.8	32,242.6	30,506.2	35,585.7	29,889.3	15,987.1
North+	10,716.2	12,601.3	11,371.3	10,076.7	12,288.8	9,674.9	4,619.9
South+	14,727.7	14,653.1	14,790.1	12,528.7	14,617.9	13,944.6	7,561.9
Offshore+	6,448.1	6,858.4	6,081.2	7,900.8	8,679.0	6,269.7	3,805.3
Maryland	5.3	7.5	0.0	0.0	11.6	0.0	0.0
Massachusetts	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Michigan	2,853.0	3,171.6	3,736.9	3,119.6	4,615.6	3,491.4	2,171.8
Mississippi	6,039.4	7,038.4	5,217.4	4,464.0	5,154.0	4,868.1	2,632.2
Missouri	79.2	163.9	132.6	92.5	85.0	17.0	16.0
Montana	3,781.9	6,549.2	3,979.5	2,314.3	4,008.5	2,932.0	1,248.3
Nebraska	2,442.3	2,946.0	1,890.1	1,809.6	1,833.7	1,358.6	755.5
Nevada	145.4	180.3	99.9	59.7	225.6	208.9	106.7
New Jersey	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Mexico	12,023.7	14,151.6	11,708.3	8,716.6	10,122.0	10,624.7	5,610.1
New York	1,349.7	1,650.0	2,163.0	1,288.6	1,681.7	982.3	407.1
North Carolina	0.0	0.0	0.0	4.6	1.0	0.0	0.0
North Dakota	5,775.7	8,197.4	6,947.5	4,386.9	6,150.6	4,457.1	1,958.7
Ohio	18,284.5	21,607.0	17,147.0	15,239.7	18,339.0	14,125.8	6,069.8
Oklahoma	45,844.6	62,638.3	60,375.8	42,808.0	45,862.9	37,635.0	21,861.5
Oregon	125.2	86.9	33.5	0.0	3.5	13.6	26.6
Pennsylvania	7,361.0	9,542.5	8,298.3	5,861.2	8,336.3	7,332.5	2,528.6
South Carolina	0.0	0.0	0.0	0.0	12.8	0.0	0.0
South Dakota	287.2	424.4	206.8	187.4	303.3	281.8	70.1
Tennessee	863.3	1,015.3	1,016.0	742.8	575.5	325.8	195.6

Footage Drilled by State
As Completed*
Thousands of feet

	1980	1981	1982	1983	1984	1985	1986
Texas	103,971.4	138,426.1	127,514.7	112,818.2	134,513.8	120,441.1	62,381.1
Dist. 1+	5,714.2	9,931.2	7,551.8	6,939.7	8,021.2	6,826.7	3,728.7
Dist. 2+	5,436.0	6,444.2	5,942.8	4,559.5	4,760.9	3,691.6	2,920.6
Dist. 3+	16,178.7	23,449.6	16,536.6	14,114.6	16,359.2	13,028.5	6,311.9
Dist. 4+	9,775.5	10,473.9	10,240.0	9,890.5	11,845.2	10,929.1	6,152.1
Dist. 5+	2,195.7	3,804.3	3,107.8	2,588.5	3,134.7	3,553.6	2,176.1
Dist. 6+	5,430.9	7,799.3	9,590.6	7,538.0	7,925.6	7,227.5	4,097.6
Dist. 7B+	9,639.0	15,568.7	13,643.9	13,242.6	15,209.4	12,868.5	6,708.0
Dist. 7C+	9,868.4	11,544.3	11,746.4	9,420.7	11,159.0	9,649.5	4,647.1
Dist. 8+	12,894.9	15,164.4	15,817.9	14,924.2	19,406.9	20,131.3	10,649.6
Dist. 8A+	9,140.4	12,348.7	11,595.2	10,516.9	13,828.2	12,568.8	5,730.6
Dist. 9+	10,431.7	13,554.1	13,203.7	11,821.3	13,481.7	11,747.9	5,849.9
Dist. 10+	4,943.5	6,055.2	6,205.9	5,607.4	7,402.8	5,951.5	2,644.2
Offshore+	2,322.6	2,288.1	2,332.1	1,624.3	1,978.9	2,266.5	764.8
Utah	1,665.9	3,661.8	3,168.1	2,526.6	3,409.9	2,585.4	1,326.2
Virginia	103.8	149.2	423.9	136.2	335.8	476.0	524.3
Washington	2.2	0.0	51.9	14.7	26.5	21.9	0.0
West Virginia	7,308.9	8,768.2	9,137.4	7,049.3	8,481.9	5,656.5	2,387.4
Wyoming	11,262.9	14,429.4	12,091.6	9,915.1	12,763.5	10,590.0	5,779.3
Off. Fed. Waters	388.8	437.7	660.8	768.7	1,025.2	1,318.1	1,033.8
Alaska+	44.2	0.0	11.6	0.0	20.0	40.6	32.8
Atlantic Coast+	64.5	70.4	117.8	14.5	45.4	0.0	0.0
Gulf of Mexico+	280.1	367.3	508.5	598.1	877.4	1,248.3	980.7
Pacific Coast+	0.0	0.0	22.8	156.1	82.4	29.2	20.3
Undesignated@	0.0	2,135.0	1,841.6	3,730.3	1,193.2	1,509.4	4,193.6
Total U.S.	**316,369.8**	**414,445.5**	**379,401.1**	**318,690.9**	**370,775.6**	**315,443.4**	**168,711.1**
Total Offshore	9,777.1	10,541.2	10,375.7	11,000.6	12,456.9	10,511.0	5,962.4

* Subject to revision as additional wells are reported which were completed in recent years.

+ Included in total for state or area.

@ State breakdowns are not available for these footage amounts.

Data from Oil & Gas Journal Energy Database.
Source: American Petroleum Institute

Exploratory Well Completions by State
As Completed*

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Alabama	30	55	87	72	48	76	54	47	60	101
Alaska	30	5	12	13	12	24	6	21	12	14
Arizona	9	10	13	2	1	1	2	2	0	2
Arkansas	87	93	98	79	91	77	80	82	95	105
California	243	221	193	202	253	213	257	275	359	395
North+	68	79	81	100	97	99	108	120	144	136
Central Coastal+	35	39	42	34	49	28	37	24	43	47
East Central+	95	69	50	55	89	73	96	110	143	191
South+	30	19	16	11	13	8	9	4	14	13
Offshore+	15	15	4	2	5	5	7	17	15	8
Colorado	461	605	473	462	374	405	389	392	449	456
Florida	13	18	39	34	28	34	9	14	15	11
Georgia	3	1	2	4	5	3	3	0	1	0
Idaho	0	0	1	5	2	1	2	1	7	3
Illinois	198	152	157	213	225	253	226	238	277	284
Indiana	149	110	130	139	168	156	196	276	268	183
Iowa	3	1	0	0	2	0	0	1	0	0
Kansas	882	735	773	754	855	909	893	1,043	1,181	1,022
Kentucky	234	213	217	165	197	341	425	368	353	423
Louisiana	669	830	731	678	652	722	607	640	782	665
North+	140	176	171	143	224	203	195	209	261	229
South+	379	380	360	333	279	372	318	293	400	313
Offshore+	150	274	200	202	149	147	94	138	121	123
Maryland	0	0	1	0	1	1	0	0	0	0
Massachusetts	0	0	0	0	0	0	0	0	0	0
Michigan	152	162	182	191	264	282	294	297	267	255
Mississippi	232	213	237	209	288	260	265	272	241	242
Missouri	4	7	3	11	20	19	9	8	6	15
Montana	307	323	430	448	420	355	362	273	324	349
Nebraska	167	130	185	102	167	206	193	235	265	265
Nevada	2	6	2	0	2	5	8	12	14	11
New Jersey	0	0	0	0	0	0	0	0	0	0
New Mexico	159	158	200	191	215	162	162	180	205	212
New York	11	10	14	21	53	35	40	49	45	60
North Carolina	0	12	2	7	3	1	0	0	0	0
North Dakota	87	98	60	71	76	105	122	111	162	175
Ohio	35	41	64	160	134	157	133	81	77	114
Oklahoma	452	430	400	353	399	411	452	490	495	479
Oregon	0	2	0	0	0	0	0	2	0	17
Pennsylvania	43	21	83	94	124	88	67	116	94	105
South Carolina	0	0	0	0	0	0	0	0	0	0
South Dakota	64	24	18	16	11	24	29	20	21	32
Tennessee	50	113	68	68	117	169	153	177	149	163

Exploratory Well Completions by State
As Completed*

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Texas	2,022	1,848	2,077	2,416	3,141	3,291	3,276	3,726	4,085	3,910
Dist. 1+	205	191	167	192	205	205	293	376	280	311
Dist. 2+	186	179	150	270	377	413	338	385	466	399
Dist. 3+	326	262	345	395	439	452	488	510	523	390
Dist. 4+	218	193	249	274	327	350	360	421	513	609
Dist. 5+	82	63	65	64	75	76	55	65	87	92
Dist. 6+	101	107	109	87	114	134	97	108	113	149
Dist. 7B+	254	253	278	292	470	541	415	579	735	642
Dist. 7C+	138	131	164	187	219	270	347	369	337	292
Dist. 8+	159	125	147	131	170	203	200	202	219	190
Dist. 8A+	109	132	125	105	162	186	187	227	229	237
Dist. 9+	142	150	179	263	329	239	274	308	354	411
Dist. 10+	53	31	47	87	97	72	48	45	69	65
Offshore+	49	31	52	69	157	150	174	131	160	123
Utah	46	61	77	77	55	64	41	103	80	89
Virginia	0	0	1	3	8	8	3	9	5	4
Washington	0	0	0	0	0	0	3	0	0	0
West Virginia	88	66	89	109	81	95	114	115	151	124
Wyoming	504	357	432	402	463	473	415	440	470	411
Off. Fed. Waters	0	0	0	0	14	33	27	24	15	39
Alaska+	0	0	0	0	0	0	0	7	4	3
Atlantic Coast+	0	0	0	0	0	0	0	0	7	18
Gulf of Mexico+	0	0	0	0	14	33	27	17	4	18
Pacific Coast+	0	0	0	0	0	0	0	0	0	0
Total U.S.	7,436	7,131	7,551	7,771	8,969	9,459	9,317	10,140	11,030	10,735
Total Offshore	215	320	256	276	325	336	302	313	313	295

Exploratory Well Completions by State
As Completed*

	1980	1981	1982	1983	1984	1985	1986
Alabama	77	75	79	84	121	143	78
Alaska	16	20	10	3	10	0	1
Arizona	6	8	7	11	2	2	5
Arkansas	111	154	128	154	133	122	81
California	443	538	468	195	204	182	121
North+	197	217	179	87	97	89	69
Central Coastal+	59	69	67	21	25	24	9
East Central+	160	231	193	67	63	61	38
South+	20	14	13	4	6	4	5
Offshore+	7	7	16	16	13	4	0
Colorado	553	849	653	504	579	562	274
Florida	8	10	12	13	12	10	6
Georgia	1	2	1	0	3	1	2
Idaho	5	5	6	4	3	3	4
Illinois	487	736	695	729	699	453	175
Indiana	327	347	451	453	404	395	115
Iowa	0	0	0	0	0	1	3
Kansas	1,237	1,848	1,838	1,718	2,346	1,709	1,218
Kentucky	619	870	1,119	1,375	972	594	151
Louisiana	808	971	801	592	763	617	396
North+	334	389	330	252	286	240	114
South+	328	406	314	226	280	215	162
Offshore+	146	176	157	114	197	162	120
Maryland	1	1	0	0	2	0	0
Massachusetts	0	0	0	0	0	0	0
Michigan	316	402	449	302	536	449	242
Mississippi	310	357	268	252	282	260	109
Missouri	22	78	79	43	28	15	5
Montana	382	521	275	181	251	221	134
Nebraska	252	279	197	187	180	157	82
Nevada	20	28	11	7	32	25	18
New Jersey	0	0	0	0	0	0	0
New Mexico	273	358	314	192	225	288	153
New York	59	79	44	41	30	18	7
North Carolina	0	0	0	1	1	0	0
North Dakota	256	461	371	211	279	219	122
Ohio	66	151	180	114	108	80	21
Oklahoma	554	733	707	567	515	403	205
Oregon	32	20	8	0	1	3	8
Pennsylvania	255	342	165	92	102	60	15
South Carolina	0	0	0	0	1	0	0
South Dakota	33	47	33	34	16	16	17
Tennessee	293	333	413	328	164	113	39

Exploratory Well Completions by State
As Completed*

	1980	1981	1982	1983	1984	1985	1986
Texas	4354	5,688	5,077	4,524	5,111	4,168	2,474
Dist. 1+	278	401	296	242	269	212	169
Dist. 2+	418	412	395	331	312	239	225
Dist. 3+	461	640	445	363	455	368	201
Dist. 4+	574	607	539	526	564	474	231
Dist. 5+	109	143	132	89	124	109	56
Dist. 6+	153	205	192	170	192	192	132
Dist. 7B+	883	1,348	1,155	1,166	1,364	849	493
Dist. 7C+	399	500	458	359	364	325	195
Dist. 8+	218	241	280	248	267	248	153
Dist. 8A+	299	402	308	279	363	343	198
Dist. 9+	404	636	720	630	671	621	351
Dist. 10+	45	28	16	12	55	70	28
Offshore+	113	125	141	109	111	118	42
Utah	112	208	149	132	112	53	28
Virginia	2	6	26	14	3	3	0
Washington	2	0	5	1	1	2	0
West Virginia	119	170	156	60	37	35	9
Wyoming	435	708	537	473	607	550	351
Off. Fed. Waters	24	27	34	36	74	102	61
Alaska+	4	0	1	0	2	4	1
Atlantic Coast+	4	5	7	1	3	0	0
Gulf of Mexico+	16	22	22	13	57	94	57
Pacific Coast+	0	0	4	22	12	4	3
Undesignated@	0	0	76	238	-3	-140	60
Total U.S.	12,870	17,430	15,842	13,865	14,946	11,894	6,790
Total Offshore	290	335	348	275	394	387	224

* Subject to revision as additional wells are reported which were completed in recent years.

+ Included in total for state or area.

@ State breakdowns are not available for these wells. Negative values indicate reclassified wells.

Data from Oil & Gas Journal Energy Database

Source: American Petroleum Institute

U.S. Well Completions
As Completed*

	Oil		Gas		Dry		Total excluding Serv. & Strat.+		Total including Serv. & Strat.+	
	Wells	Footage	Wells	Footage	Wells	Footage	Wells	Footage	Wells	Footage
January 1970	1,141	4,858,326	384	2,201,916	1,050	5,872,281	2,575	12,932,523	2,693	13,217,048
February	1,246	5,302,693	317	1,897,586	762	4,284,288	2,325	11,484,567	2,449	11,724,999
March	1,018	4,485,537	305	1,927,705	795	4,296,368	2,118	10,709,610	2,215	10,991,411
April	1,001	4,557,203	296	1,872,689	807	4,269,227	2,104	10,699,119	2,271	11,061,802
May	1,097	4,636,590	320	1,966,779	915	4,744,811	2,332	11,348,180	2,419	11,585,720
June	1,181	4,753,903	335	2,189,983	898	4,622,182	2,414	11,566,068	2,506	11,800,797
July	1,100	4,877,808	310	1,905,437	974	4,906,473	2,384	11,689,718	2,519	11,938,470
August	1,073	4,769,604	307	1,716,847	929	4,800,956	2,309	11,287,407	2,394	11,484,848
September	998	4,611,144	330	1,843,021	883	4,455,179	2,211	10,909,344	2,330	11,153,799
October	1,010	4,549,024	349	1,960,315	972	4,728,515	2,331	11,237,854	2,433	11,477,450
November	1,004	4,305,428	332	1,863,988	954	4,848,160	2,290	11,017,576	2,381	11,347,095
December	1,174	5,123,483	446	2,270,599	1,160	6,283,479	2,780	13,677,561	2,932	14,183,054
Total 1970	**13,043**	**56,830,743**	**4,031**	**23,616,865**	**11,099**	**58,111,919**	**28,173**	**138,559,527**	**29,542**	**141,966,493**
January 1971	1,016	4,572,820	343	2,175,863	871	4,876,559	2,230	11,625,242	2,354	11,928,064
February	937	3,698,318	279	1,943,442	645	3,460,461	1,861	9,102,221	1,947	9,307,039
March	1,038	4,341,764	260	1,773,359	648	3,308,125	1,946	9,423,248	2,056	9,719,095
April	1,063	4,252,568	291	1,725,639	707	3,579,901	2,061	9,558,108	2,171	9,793,283
May	939	4,007,809	288	1,759,028	757	3,964,649	1,984	9,731,486	2,116	9,998,577
June	951	4,036,243	311	1,871,479	895	4,528,102	2,157	10,435,824	2,294	10,760,366
July	1,003	4,143,074	353	2,018,685	922	4,821,832	2,278	10,983,591	2,415	11,318,795
August	945	4,011,821	357	2,082,155	893	4,678,176	2,195	10,772,152	2,322	11,069,287
September	965	3,856,493	352	1,955,982	940	4,840,906	2,227	10,653,381	2,351	10,942,835
October	1,032	3,951,631	382	1,917,472	1,052	5,348,804	2,466	11,217,907	2,595	11,487,099
November	1,012	4,008,158	376	2,035,590	1,051	4,509,233	2,439	11,652,981	2,562	11,986,832
December	1,002	4,177,021	391	2,161,158	1,031	5,761,632	2,424	12,099,811	2,499	12,355,853
Total 1971	**11,903**	**49,057,720**	**3,983**	**23,419,852**	**10,382**	**53,678,380**	**26,268**	**127,255,952**	**27,682**	**130,667,125**
January 1972	970	4,247,779	433	2,551,256	1,035	5,677,684	2,438	12,476,719	2,581	12,829,582
February	1,029	4,389,967	382	2,353,491	784	4,400,068	2,195	11,143,526	2,331	11,428,715
March	1,085	4,662,161	348	2,113,319	795	4,276,865	2,228	11,052,345	2,396	11,482,587
April	970	4,524,556	400	2,333,706	836	4,374,341	2,206	11,232,603	2,354	11,614,518
May	1,060	4,456,646	392	2,362,811	835	4,431,681	2,287	11,251,138	2,416	11,611,156
June	963	3,874,400	424	2,280,203	968	4,804,688	2,355	10,959,291	2,470	11,275,380
July	968	4,185,170	458	2,374,165	914	5,063,906	2,340	11,623,241	2,457	11,892,697
August	1,049	4,272,477	574	1,863,188	980	5,187,039	2,603	12,322,704	2,740	12,655,677
September	948	4,230,932	468	2,477,941	934	4,799,830	2,350	11,508,703	2,523	11,893,417
October	845	3,726,592	597	3,159,984	1,052	5,694,206	2,494	12,580,782	2,574	12,799,566
November	798	3,531,805	521	2,798,198	944	5,156,685	2,263	11,486,688	2,309	11,602,376
December	752	3,381,479	487	2,588,453	936	5,188,890	2,175	11,158,822	2,269	11,423,943
Total 1972	**11,437**	**49,483,964**	**5,484**	**29,256,715**	**11,013**	**59,055,883**	**27,934**	**138,796,562**	**29,420**	**142,509,614**
January 1973	784	3,655,120	522	2,718,529	887	5,209,912	2,193	11,583,561	2,278	11,801,226
February	703	3,186,184	454	2,704,221	757	4,293,473	1,914	10,183,878	1,987	10,369,732
March	857	3,774,564	496	2,835,840	823	4,511,369	2,176	11,121,773	2,261	11,311,510
April	688	3,235,137	548	3,156,596	668	3,712,142	1,904	10,103,875	1,967	10,279,293
May	897	4,085,379	603	3,377,850	819	4,464,313	2,319	11,927,542	2,372	12,070,115
June	922	4,095,754	551	2,894,618	833	4,369,581	2,306	11,359,953	2,369	11,509,761
July	867	3,687,114	617	3,212,662	904	4,649,555	2,388	11,549,331	2,462	11,763,664
August	984	4,249,520	695	3,720,301	1,031	5,213,053	2,710	13,182,874	2,806	13,408,147
September	902	3,820,540	577	3,188,670	873	4,513,783	2,352	11,522,993	2,419	11,718,074
October	900	3,738,024	697	3,610,428	966	5,315,478	2,563	12,663,930	2,672	12,989,845
November	918	3,861,831	621	3,429,963	916	4,900,245	2,455	12,192,039	2,559	12,422,737
December	829	3,370,025	594	3,361,930	989	5,301,034	2,412	12,032,989	2,510	12,230,272
Total 1973	**10,251**	**44,759,192**	**6,975**	**38,211,608**	**10,466**	**56,453,938**	**27,692**	**139,424,738**	**28,662**	**141,874,376**

U.S. Well Completions
As Completed*

	Oil		Gas		Dry		Total excluding Serv. & Strat.+		Total including Serv. & Strat.+	
	Wells	Footage	Wells	Footage	Wells	Footage	Wells	Footage	Wells	Footage
January 1974	914	3,821,342	686	3,472,733	869	4,665,833	2,469	11,959,908	2,530	12,129,353
February	886	3,539,722	547	2,905,287	802	5,635,630	2,235	10,980,639	2,304	11,160,235
March	1,068	4,444,941	659	3,413,015	905	4,982,380	2,632	12,837,336	2,749	13,080,094
April	1,133	4,486,031	627	3,582,310	963	5,140,893	2,723	13,209,234	2,817	13,462,532
May	1,196	4,430,318	603	3,355,764	1,032	5,334,661	2,831	13,120,743	2,942	13,448,576
June	1,219	4,498,919	589	3,064,979	962	4,849,218	2,770	12,413,116	2,878	12,616,759
July	1,255	4,859,398	605	3,221,406	1,127	5,814,960	2,987	13,895,764	3,104	14,128,970
August	1,215	4,260,856	554	2,883,415	1,074	5,575,892	2,843	12,720,163	2,933	12,927,613
September	1,090	4,192,284	572	3,151,840	1,073	5,324,743	2,735	12,668,867	2,862	12,879,578
October	1,279	4,864,465	634	3,247,130	1,153	5,704,423	3,066	13,816,018	3,203	14,127,008
November	1,107	3,999,472	527	3,068,055	1,104	5,555,357	2,738	12,623,384	2,909	12,890,976
December	1,302	4,675,564	565	3,115,603	1,141	5,740,060	3,008	13,531,227	3,184	13,798,176
Total 1974	**13,664**	**52,070,312**	**7,168**	**38,481,5[illegible]7**	**12,205**	**64,324,550**	**33,037**	**153,776,399**	**34,415**	**156,649,870**
January 1975	1,315	5,413,635	619	3,50[illegible],016	1,143	5,975,022	3,077	14,894,673	3,278	15,246,268
February	1,070	4,351,900	539	3,150,347	872	4,845,066	2,481	12,347,313	2,711	12,713,010
March	1,320	5,400,416	534	3,066,346	1,036	5,813,645	2,890	14,280,407	3,046	14,566,942
April	1,336	5,442,334	595	3,443,958	1,041	5,367,056	2,972	14,253,348	3,111	14,513,938
May	1,355	5,522,330	637	3,741,542	1,048	5,513,767	3,040	14,777,639	3,199	15,075,957
June	1,4[illegible]	5,357,926	681	3,699,127	1,090	5,455,520	3,204	14,512,573	3,324	14,806,011
July	1,453	5,728,657	732	3,819,429	1,168	5,830,162	3,353	15,378,248	3,455	15,635,367
August	1,544	5,796,138	838	4,363,330	1,198	5,828,182	3,580	15,987,650	3,753	16,371,402
September	1,499	5,865,575	792	4,167,603	1,269	5,855,372	3,560	15,888,55	3,664	16,160,105
October	1,726	6,532,475	843	4,269,200	1,382	6,588,547	3,951	17,390,22	4,197	17,836,850
November	1,437	5,507,776	678	3,553,622	1,234	6,003,555	3,349	15,064,953	3,482	15,372,503
December	1,491	6,006,705	681	3,700,194	1,255	6,557,518	3,427	16,264,417	3,584	16,587,888
Total 1975	**16,979**	**66,925,867**	**8,169**	**44,480,714**	**13,736**	**69,633,412**	**38,884**	**181,039,993**	**40,804**	**184,886,241**
January 1976	1,711	6,471,244	869	4,437,225	1,323	6,709,846	3,903	17,618,314	4,166	18,039,384
February	1,286	5,119,258	694	3,808,629	1,049	5,172,155	3,029	14,100,042	3,195	14,451,411
March	1,499	5,835,181	717	3,853,175	1,176	6,027,688	3,392	15,716,044	3,502	15,971,060
April	1,470	5,734,777	661	3,604,264	1,132	5,625,413	3,263	14,964,554	3,354	15,150,977
May	1,385	5,349,631	709	3,801,[illegible]	1,073	5,079,020	3,167	14,230,410	3,297	14,501,809
June	1,543	5,955,595	780	4,147,610	1,124	5,198,699	3,447	15,301,904	3,565	15,555,553
July	1,336	5,213,785	799	4,058,873	1,081	5,615,980	3,216	14,888,638	3,336	15,132,590
August	1,586	5,950,879	970	4,781,871	1,098	5,368,881	3,654	16,101,631	3,819	16,396,747
September	1,478	5,760,277	864	4,298,523	1,156	5,792,606	3,498	15,851,406	3,643	16,164,583
October	1,532	6,069,975	819	4,244,272	1,245	6,357,909	3,596	16,672,156	3,688	16,930,980
November	1,399	5,545,827	845	4,309,173	1,164	6,009,450	3,408	15,865,450	3,508	16,136,077
December	1,472	5,820,267	711	3,852,215	1,184	6,306,554	3,367	15,979,036	3,541	16,433,384
Total 1976	**17,697**	**68,827,696**	**9,438**	**49,197,689**	**13,805**	**69,264,2[illegible]1**	**40,940**	**187,289,585**	**42,614**	**190,8[illegible]1,555**
January 1977	1,388	5,744,725	851	4,331,421	1,097	5,926,871	3,336	16,003,017	3,462	16,318,234
February	1,348	5,572,602	784	4,272,302	1,003	5,359,260	3,135	15,204,164	3,242	15,460,639
March	1,657	6,815,220	1,010	5,388,632	1,216	6,280,051	3,883	18,483,902	4,013	18,795,920
April	1,515	6,136,592	901	4,763,699	1,143	5,969,935	3,559	16,870,226	3,681	17,162,496
May	1,594	6,403,677	945	4,906,190	1,254	6,477,654	3,793	17,787,520	3,955	18,172,600
June	1,675	6,638,365	1,095	5,732,529	1,202	6,069,313	3,972	18,440,206	4,082	18,759,204
July	1,507	6,0[illegible]2,887	1,034	5,126,281	1,261	6,388,587	3,802	17,517,754	3,905	17,819,040
August	1,691	6,745,253	1,185	6,324,139	1,344	6,773,972	4,220	19,843,364	4,365	20,281,802
September	1,621	6,574,649	1,074	5,615,278	1,323	6,371,677	4,018	18,561,604	4,137	18,933,084
October	1,624	6,440,950	1,161	6,243,654	1,428	7,280,340	4,213	19,964,944	4,346	20,342,222
November	1,557	6,117,174	1,014	5,385,055	1,385	6,861,918	3,956	18,364,146	4,065	18,659,924
December	1,523	5,998,986	1,065	5,410,695	1,380	7,245,345	3,968	18,655,026	4,055	18,869,156
Total 1977	**18,700**	**75,191,080**	**12,119**	**63,499,875**	**15,036**	**77,004,923**	**45,855**	**215,695,873**	**47,308**	**219,574,321**

U.S. Well Completions
As Completed*

	Oil		Gas		Dry		Total excluding Serv. & Strat.+		Total including Serv. & Strat.+	
	Wells	Footage	Wells	Footage	Wells	Footage	Wells	Footage	Wells	Footage
January 1978	1,392	5,729,470	1,081	5,708,330	1,351	6,867,600	3,824	18,305,400	3,911	18,483,228
February	1,170	4,918,663	862	4,654,818	1,041	5,773,431	3,073	15,346,912	3,181	15,643,434
March	1,452	6,181,667	1,079	6,236,879	1,284	7,003,399	3,815	19,421,944	3,954	19,807,146
April	1,782	7,261,180	1,140	6,378,513	1,312	6,690,956	4,234	20,330,648	4,372	20,675,168
May	1,695	6,776,412	1,181	6,243,819	1,352	7,154,195	4,228	20,174,426	4,425	20,613,958
June	1,759	6,867,070	1,244	6,554,622	1,412	7,106,269	4,415	20,527,960	4,547	20,967,220
July	1,553	6,102,085	1,210	6,216,291	1,414	7,360,271	4,177	19,678,646	4,362	20,066,918
August	1,688	6,727,166	1,355	6,952,389	1,524	7,667,593	4,567	21,347,148	4,730	21,751,432
September	1,586	6,497,421	1,303	6,543,800	1,495	7,765,227	4,384	20,806,448	4,502	21,114,026
October	1,854	7,267,587	1,426	7,501,461	1,571	7,901,477	4,851	22,670,524	4,986	22,982,242
November	1,632	6,322,452	1,282	6,347,638	1,435	7,606,802	4,349	20,276,892	4,459	20,585,130
December	1,502	5,970,166	1,242	6,251,404	1,400	7,277,725	4,144	19,499,294	4,242	19,823,608
Total 1978	**19,065**	**76,621,339**	**14,405**	**75,589,964**	**16,591**	**86,174,945**	**50,061**	**238,386,242**	**51,671**	**242,513,510**
January 1979	1,340	5,694,914	1,334	6,790,673	1,232	6,867,732	3,906	19,353,318	4,003	19,602,848
February	1,150	5,205,455	910	5,053,848	1,002	5,664,665	3,062	15,923,968	3,155	16,158,086
March	1,369	6,082,127	1,104	6,472,606	1,187	6,243,267	3,660	18,798,000	3,752	19,065,568
April	1,378	5,728,120	1,110	6,017,901	1,105	5,836,278	3,593	17,582,298	3,731	17,986,064
May	1,656	6,444,885	1,256	6,850,535	1,242	6,310,682	4,154	19,606,102	4,275	19,936,466
June	1,724	6,754,195	1,335	6,853,941	1,275	6,248,389	4,334	19,856,524	4,458	20,235,092
July	1,850	7,185,844	1,273	6,269,923	1,271	6,203,810	4,394	19,659,576	4,493	19,919,674
August	1,932	7,710,808	1,417	7,256,086	1,506	7,522,332	4,855	22,489,266	4,994	22,794,738
September	1,906	7,317,532	1,295	6,440,784	1,450	7,248,814	4,651	21,007,130	4,770	21,274,772
October	2,283	8,516,443	1,569	8,094,077	1,657	7,995,423	5,509	24,605,942	5,680	24,925,416
November	1,996	7,708,221	1,312	4,914,845	1,538	7,543,266	4,846	22,166,292	4,983	22,486,606
December	2,105	7,794,030	1,251	6,859,667	1,570	7,983,352	4,926	22,637,048	5,068	22,965,414
Total 1979	**20,689**	**82,142,574**	**15,166**	**77,874,886**	**16,035**	**81,668,010**	**51,890**	**243,685,464**	**53,362**	**247,350,744**
January 1980	2,443	9,277,620	1,542	7,760,497	1,570	7,999,204	5,555	25,037,320	5,701	25,376,130
February	2,142	8,399,163	1,233	6,452,415	1,287	6,554,629	4,662	21,406,206	4,765	21,634,392
March	2,325	9,079,150	1,270	7,043,775	1,362	7,068,803	4,957	23,191,728	5,138	23,564,910
April	2,388	9,472,724	1,270	7,130,711	1,438	6,880,381	5,096	23,483,816	5,299	23,943,198
May	2,522	9,691,813	1,297	6,943,612	1,595	8,056,569	5,414	24,691,994	5,650	25,303,364
June	2,765	10,593,643	1,560	8,297,139	1,710	8,235,502	6,035	27,126,284	6,224	27,725,844
July	2,866	10,792,684	1,474	7,861,212	1,774	8,396,496	6,114	27,050,392	6,265	27,389,996
August	2,925	11,102,961	1,532	7,524,087	1,923	8,880,627	6,380	27,507,674	6,587	27,982,078
September	2,884	10,796,285	1,609	8,541,325	1,889	9,041,835	6,382	28,379,444	6,542	28,796,064
October	3,126	11,983,819	1,607	8,284,163	1,926	8,369,872	6,659	29,237,854	6,860	29,679,646
November	2,827	10,727,224	1,397	7,309,102	1,859	8,737,009	6,083	26,773,334	6,234	27,070,168
December	2,907	11,346,627	1,341	7,204,033	1,901	9,008,126	6,149	27,558,786	6,297	27,904,050
Total 1980	**32,120**	**123,263,713**	**17,132**	**90,352,071**	**20,234**	**97,829,053**	**69,486**	**311,444,832**	**71,562**	**316,369,840**
January 1981	3,730	13,581,058	1,968	10,379,941	2,253	10,897,259	7,951	34,858,256	8,221	35,548,304
February	2,946	11,767,569	1,366	7,513,559	1,759	8,599,093	6,071	27,880,220	6,203	28,194,434
March	3,434	13,584,324	1,484	8,218,238	2,047	10,343,518	6,965	32,146,080	7,164	32,712,182
April	3,377	13,515,207	1,537	8,277,987	2,020	9,987,161	6,934	31,780,351	7,103	32,203,550
May	3,547	14,047,404	1,638	8,956,893	2,181	10,564,965	7,366	33,569,260	7,603	34,126,400
June	3,561	14,584,205	1,648	8,602,446	2,251	10,771,159	7,560	33,957,808	7,739	34,478,540
July	3,745	14,944,133	1,604	8,588,688	2,341	11,077,480	7,690	34,610,300	7,886	35,145,440
August	3,795	14,774,394	1,784	9,376,620	2,506	12,352,060	8,085	36,503,072	8,247	36,912,752
September	3,664	14,699,262	1,784	9,182,636	2,369	11,488,685	7,817	35,370,580	8,045	35,833,216
October	3,494	14,345,915	1,804	9,547,958	2,472	12,037,441	7,770	35,931,312	7,965	36,365,740
November	3,408	13,513,870	1,547	8,144,038	2,341	11,406,513	7,296	33,064,420	7,493	33,560,688
December	3,719	15,348,615	1,578	8,990,077	2,432	12,510,082	7,729	36,848,772	7,931	37,299,192
Total 1981	**42,520**	**168,705,956**	**19,742**	**105,779,081**	**26,972**	**132,035,416**	**89,234**	**406,520,434**	**91,600**	**412,310,438**

U.S. Well Completions
As Completed*

	Oil		Gas		Dry		Total excluding Serv. & Strat.+		Total including Serv. & Strat.+	
	Wells	Footage	Wells	Footage	Wells	Footage	Wells	Footage	Wells	Footage
January 1982	3,836	14,850,807	1,921	11,022,667	2,574	12,964,623	8,331	38,838,096	8,527	39,367,460
February	2,975	12,362,823	1,559	8,797,922	2,014	10,628,722	6,548	31,789,466	6,732	32,306,492
March	3,752	15,798,852	1,668	9,950,291	2,241	11,406,949	7,661	37,156,092	7,834	37,576,452
April	3,460	13,965,826	1,504	9,400,075	2,151	10,248,620	7,115	32,614,520	7,268	32,948,502
May	3,147	12,338,125	1,521	8,886,352	1,920	9,215,460	6,588	30,439,936	6,776	30,912,350
June	2,896	11,265,646	1,503	8,381,250	1,953	9,199,398	6,352	28,846,294	6,525	29,220,096
July	3,000	1,202,581	1,427	8,078,145	2,076	9,337,869	6,503	28,618,594	6,748	29,084,598
August	3,109	11,694,152	1,478	8,336,179	2,126	9,853,307	6,713	29,883,638	6,890	30,293,030
September	2,849	10,357,103	1,413	8,019,111	2,007	9,389,043	6,269	27,765,256	6,500	28,249,738
October	2,899	10,804,655	1,350	7,781,562	2,044	9,397,012	6,293	27,983,228	6,463	28,442,316
November	2,829	10,001,119	1,338	7,476,179	1,936	8,623,826	6,103	26,101,124	6,219	26,447,492
December	2,928	10,538,041	1,469	7,775,491	2,041	9,617,609	6,438	27,931,140	6,610	28,315,564
Total 1982	**37,680**	**135,179,730**	**18,151**	**103,905,224**	**25,083**	**119,882,438**	**80,914**	**367,967,384**	**83,092**	**373,164,090**
January 1983	3,438	11,804,611	1,415	7,780,153	2,124	9,942,734	6,977	29,527,498	7,140	29,934,766
February	2,542	9,642,272	1,085	6,068,174	1,720	7,809,465	5,347	23,519,910	5,466	23,826,676
March	2,869	11,038,054	1,070	6,114,425	1,846	8,516,446	5,785	25,668,924	5,947	26,001,334
April	2,557	9,816,840	873	5,203,033	1,558	7,183,558	4,988	22,203,430	5,110	22,491,802
May	2,644	10,392,880	938	5,491,096	1,728	7,594,098	5,310	23,478,074	5,494	23,943,516
June	2,864	10,396,443	1,035	5,840,156	1,858	7,334,994	5,757	23,571,592	5,928	23,918,708
July	3,045	10,829,793	1,084	5,675,134	1,958	8,132,677	6,087	24,637,604	6,263	25,028,930
August	3,365	11,804,970	1,316	6,600,293	2,076	8,506,452	6,757	26,911,714	6,981	27,490,256
September	3,193	11,701,740	1,244	6,436,488	1,975	8,395,090	6,412	26,533,318	6,584	26,887,858
October	3,271	12,426,341	1,391	6,874,086	2,163	9,543,363	6,825	28,843,790	6,995	29,258,902
November	3,223	12,337,760	1,255	6,151,324	2,115	9,737,619	6,593	28,226,702	6,770	28,665,240
December	2,980	11,327,856	1,308	6,616,692	1,923	9,208,164	6,211	27,152,712	6,355	27,515,366
Total 1983	**35,991**	**133,519,560**	**14,014**	**74,851,054**	**23,044**	**101,904,660**	**73,049**	**310,275,268**	**75,033**	**314,963,354**
January 1984	3,584	14,455,074	1,195	6,620,301	2,299	10,919,242	7,078	31,994,617	7,243	32,419,974
February	3,395	13,447,552	1,128	6,178,456	1,806	8,838,383	6,329	28,464,391	6,487	28,899,298
March	3,391	13,536,794	1,035	6,421,547	1,786	8,899,202	6,212	28,857,543	6,389	29,292,548
April	3,225	12,146,874	860	5,338,143	1,708	8,389,517	5,793	25,874,534	5,993	26,336,419
May	3,681	14,121,889	1,168	6,678,339	1,948	9,449,245	6,797	30,249,473	6,978	30,670,793
June	3,856	14,181,664	1,307	6,951,162	2,330	10,435,686	7,493	31,568,512	7,682	32,043,372
July	3,896	14,566,318	1,248	7,027,901	2,270	10,228,853	7,414	31,823,072	7,600	32,311,990
August	3,857	14,126,213	1,390	7,456,675	2,503	11,195,100	7,750	32,777,988	7,952	33,378,981
September	3,633	13,334,037	1,233	6,527,688	2,072	9,466,166	6,938	29,327,891	7,079	29,699,372
October	3,724	14,701,072	1,348	7,278,731	2,046	9,623,994	7,118	31,603,797	7,350	32,268,256
November	3,701	13,840,332	1,402	7,092,487	2,007	9,767,767	7,110	30,700,586	7,287	31,182,740
December	3,572	13,257,777	1,313	6,859,330	2,089	10,490,937	6,974	30,608,044	7,156	31,078,619
Total 1984	**43,515**	**165,715,596**	**14,627**	**80,430,760**	**24,864**	**117,704,092**	**83,006**	**363,850,448**	**85,196**	**369,582,362**
January 1985	3,285	13,243,520	1,195	6,779,399	1,954	10,293,887	6,434	30,316,806	6,615	31,015,115
February	2,809	11,675,415	1,084	6,197,374	1,508	7,873,365	5,401	25,746,154	5,538	26,198,736
March	3,231	13,153,471	1,092	6,272,947	1,809	8,901,900	6,132	28,328,318	6,340	28,882,477
April	2,946	11,834,396	991	5,779,415	1,721	8,501,090	5,658	26,114,901	5,811	26,539,122
May	2,837	11,595,192	904	5,069,508	1,646	8,166,566	5,387	24,831,266	5,583	25,429,301
June	2,935	11,216,991	1,013	5,433,233	1,642	7,651,325	5,590	24,301,549	5,736	24,763,100
July	3,061	11,247,639	1,082	5,904,701	1,800	8,350,586	5,943	25,502,926	6,103	25,954,556
August	3,268	12,359,379	1,103	5,940,013	1,891	8,848,581	6,262	27,147,973	6,361	27,435,717
September	2,787	10,573,110	1,064	5,549,547	1,686	8,179,445	5,537	24,302,102	5,635	24,562,692
October	2,943	11,567,998	1,186	6,074,099	1,733	8,340,495	5,862	25,982,592	5,959	26,308,421
November	2,531	10,053,853	869	4,989,014	1,516	7,462,293	4,916	22,505,160	4,992	22,788,349
December	2,750	11,120,898	897	5,074,087	1,774	9,033,445	5,421	25,228,430	5,522	25,565,824
Total 1985	**35,383**	**139,641,862**	**12,480**	**69,063,337**	**20,680**	**101,602,878**	**68,543**	**310,308,177**	**70,195**	**315,443,410**

U.S. Well Completions
As Completed*

	Oil		Gas		Dry		Total excluding Serv. & Strat.+		Total including Serv. & Strat.+	
	Wells	Footage	Wells	Footage	Wells	Footage	Wells	Footage	Wells	Footage
January 1986	3,188	11,806,838	987	5,243,081	1,693	8,612,933	5,868	25,662,852	5,952	25,936,809
February	2,271	9,636,816	679	4,011,165	1,142	6,212,127	4,092	19,860,108	4,155	20,101,613
March	2,239	9,454,283	692	4,106,869	1,250	6,179,493	4,181	19,740,645	4,233	19,900,522
April	1,637	7,290,772	618	3,733,330	979	4,817,615	3,234	15,841,717	3,292	16,053,517
May	1,092	4,918,468	471	2,687,663	839	4,295,038	2,402	11,901,169	2,474	12,184,258
June	936	3,947,934	478	2,599,277	753	3,573,837	2,167	10,121,048	2,199	10,236,691
July	921	4,050,743	526	2,614,317	801	3,886,419	2,248	10,551,479	2,297	10,708,438
August	884	3,752,791	509	2,587,170	841	3,808,747	2,234	10,148,708	2,274	10,273,343
September	937	3,706,090	487	2,538,581	733	3,688,260	2,157	9,932,931	2,182	10,017,822
October	1,031	3,950,655	519	2,818,125	780	3,835,301	2,330	10,604,081	2,377	10,762,308
November	1,033	3,942,171	435	2,523,120	806	4,010,517	2,274	10,475,808	2,306	10,594,541
December	1,032	4,349,788	488	2,833,977	889	4,577,217	2,409	11,760,982	2,468	11,941,248
Total 1986	17,201	70,307,349	6,889	38,296,675	11,506	57,497,504	35,596	166,601,528	36,209	168,711,110

* Subject to revision as additional wells are reported which were completed in recent years.
+ Service wells and stratigraphic and core tests.

Data from Oil & Gas Journal Energy Database.
Source: American Petroleum Institute

Exploratory Well Completions
As Completed*

	Oil		Gas		Dry		Total	
	Wells	Footage	Wells	Footage	Wells	Footage	Wells	Footage
January 1970	83	499,671	53	409,143	637	3,921,104	773	4,829,918
February	79	526,042	43	286,868	422	2,684,362	544	3,497,272
March	47	302,797	42	321,626	410	2,417,662	499	3,042,085
April	59	396,413	44	392,532	452	2,741,229	555	3,530,174
May	61	320,936	36	292,962	489	2,688,562	586	3,302,460
June	47	294,446	30	247,005	469	2,621,280	546	3,162,731
July	64	363,766	38	299,117	521	2,809,952	623	3,472,835
August	60	408,244	41	305,091	531	2,927,457	632	3,640,792
September	74	481,227	32	213,542	526	2,823,158	632	3,517,927
October	56	334,925	36	287,577	548	2,835,228	640	3,457,730
November	56	343,246	37	241,233	538	2,938,746	631	3,523,225
December	77	457,710	46	369,324	652	3,726,299	775	4,553,333
Total 1970	**763**	**4,729,423**	**478**	**3 666,020**	**6,195**	**35,135,039**	**7,436**	**43,530,482**
January 1971	66	440,310	63	492,808	492	3,092,258	621	4,025,376
February	56	330,668	38	286,646	354	1,969,828	448	2,587,142
March	57	338,509	33	309,113	356	2,054,100	446	2,701,722
April	65	343,000	33	247,245	395	2,267,758	493	2,858,003
May	41	239,654	21	172,668	397	2,325,656	459	2,737,978
June	53	238,185	37	260,416	478	2,649,821	568	3,148,422
July	53	283,905	43	307,954	514	2,874,906	610	3,466,765
August	61	347,206	45	292,611	546	3,154,148	652	3,793,965
September	47	271,913	26	213,765	557	3,204,472	630	3,690,150
October	57	313,728	33	223,747	639	3,576,426	729	4,113,901
November	48	285,838	53	384,238	645	3,781,496	746	4,451,572
December	60	352,942	47	421,621	622	3,612,894	729	4,387,457
Total 1971	**664**	**3,785,858**	**472**	**3,612,832**	**5,995**	**34,563,763**	**7,131**	**41,962,453**
January 1972	57	326,134	52	399,490	622	3,711,957	731	4,437,581
February	64	384,841	46	363,266	425	2,691,822	535	3,439,929
March	89	540,838	47	408,186	419	2,466,305	555	3,415,329
April	51	288,451	50	385,170	446	2,643,196	547	3,316,817
May	54	300,765	46	363,416	446	2,642,179	546	3,306,360
June	43	276,801	54	392,119	527	2,967,812	624	3,636,732
July	57	328,603	56	400,228	518	3,079,220	631	3,808,051
August	47	255,348	53	374,362	546	3,076,787	646	3,706,497
September	69	425,296	57	428,501	520	2,885,753	646	3,739,550
October	56	350,763	59	474,026	596	3,427,654	711	4,252,643
November	54	295,561	76	500,362	555	3,263,100	685	4,059,023
December	49	268,723	63	383,188	582	3,508,850	694	4,160,761
Total 1972	**690**	**4,042,124**	**659**	**4,872,314**	**6,202**	**36,364,635**	**7,551**	**45,279,273**
January 1973	58	355,250	61	412,279	548	3,381,086	667	4,148,615
February	54	348,685	61	474,108	414	2,617,604	529	3,440,397
March	54	361,818	69	500,220	438	2,670,634	561	3,532,672
April	28	178,262	82	580,291	374	2,139,906	484	2,898,459
May	51	346,742	97	658,391	461	2,760,504	609	3,765,637
June	64	436,450	86	500,053	484	2,660,924	634	3,597,427
July	47	251,927	114	662,512	535	2,868,605	696	3,783,044
August	73	449,827	93	639,670	605	3,241,404	771	4,330,901
September	55	322,700	105	694,273	510	2,821,714	670	3,838,687
October	51	294,580	111	662,241	564	3,352,705	726	4,309,526
November	64	378,981	97	626,003	506	2,887,120	667	3,892,104
December	55	320,996	103	664,200	599	3,526,669	757	4,511,865
Total 1973	**654**	**4,046,218**	**1,079**	**7,074,241**	**6,038**	**34,928,875**	**7,771**	**46,049,334**

Exploratory Well Completions
As Completed*

	Oil		Gas		Dry		Total	
	Wells	Footage	Wells	Footage	Wells	Footage	Wells	Footage
January 1974	58	329,071	86	448,708	492	2,778,264	636	3,556,043
February	54	352,055	88	606,327	490	2,987,830	632	3,946,212
March	71	489,481	99	647,245	497	2,929,227	667	4,065,953
April	61	401,184	111	802,247	539	3,160,827	711	4,365,258
May	78	425,592	121	890,776	574	3,103,286	773	4,419,654
June	86	534,833	97	592,646	567	3,151,210	750	4,278,689
July	82	490,565	105	633,366	612	3,439,459	799	4,563,390
August	82	464,537	82	522,223	623	3,499,928	787	4,486,688
September	64	309,143	108	708,691	591	3,305,634	763	4,323,468
October	86	484,298	118	689,518	626	3,455,039	830	4,638,855
November	66	332,361	94	620,888	650	3,594,796	810	4,548,055
December	82	454,662	96	569,201	633	3,456,093	811	4,479,956
Total 1974	**870**	**5,067,782**	**1,205**	**7,741,846**	**6,894**	**38 861,593**	**8,969**	**51,672,221**
January 1975	84	476,907	96	663,208	630	3,620,125	810	4,760,240
February	82	503,256	81	620,765	459	2,304,682	622	3,928,703
March	94	559,648	92	680,560	581	3,539,037	767	4,779,245
April	84	527,922	98	688,611	557	3,209,777	739	4,426,310
May	86	479,277	114	780,447	548	3,256,102	748	4,515,776
June	81	452,616	104	765,916	544	3,001,913	729	4,220,445
July	83	538,226	129	788,245	636	3,558,078	848	4,884,549
August	94	538,109	133	760,821	598	3,221,200	825	4,520,130
September	70	416,535	94	590,347	618	3,200,890	782	4,207,772
October	90	489,888	114	712,774	694	3,754,144	898	4,956,806
November	70	406,480	110	814,777	642	3,554,082	822	4,775,339
December	73	433,254	96	601,732	700	4,035,333	869	5,070,319
Total 1975	**991**	**5,822,118**	**1,261**	**8,468,203**	**7,207**	**40,755,363**	**9,459**	**55,045,634**
January 1976	92	565,815	129	871,075	687	3,978,012	908	5,414,902
February	101	580,670	110	764,206	528	3,046,550	739	4,391,426
March	90	477,993	124	732,300	602	3,410,231	816	4,620,524
April	80	476,587	117	775,578	540	2,939,045	737	4,151,210
May	87	501,969	106	790,558	506	2,673,366	699	3,965,893
June	92	574,899	136	877,140	545	2,821,695	773	4,273,734
July	86	492,484	109	755,861	533	3,087,535	728	4,335,880
August	109	618,467	115	750,282	557	3,096,356	781	4,465,105
September	93	599,520	108	732,957	580	315,825	781	4,490,729
October	78	518,112	109	724,066	604	3,296,398	791	4,538,576
November	104	599,554	111	786,596	576	3,194,672	791	4,580,822
December	88	527,690	87	626,559	598	3,509,140	773	4,663,389
Total 1976	**1,100**	**6,493,760**	**1,361**	**9,187,178**	**6,856**	**35,368,825**	**9,317**	**53,892,190**
January 1977	110	630,914	82	587,441	558	3,285,778	750	4,504,133
February	97	633,189	100	626,492	487	2,860,397	684	4,020,078
March	94	632,027	137	984,711	573	3,278,615	804	4,795,353
April	100	608,176	127	828,979	539	2,968,000	766	4,405,155
May	104	586,560	117	796,119	600	3,375,681	821	4,758,360
June	110	651,665	155	1,079,139	576	3,187,445	841	4,918,249
July	78	411,381	132	799,836	609	3,208,155	819	4,419,372
August	100	633,628	151	953,665	604	3,379,156	855	4,966,449
September	93	570,231	136	827,682	692	3,567,934	921	4,965,847
October	103	625,001	138	900,436	730	4,011,744	971	5,537,181
November	109	592,736	150	974,323	698	3,805,785	957	5,372,844
December	83	495,198	132	845,401	736	4,207,776	951	5,548,375
Total 1977	**1,181**	**7,070,706**	**1,557**	**10,204,224**	**7,402**	**41,136,466**	**10,140**	**58,211,396**

Exploratory Well Completions
As Completed*

	Oil		Gas		Dry		Total	
	Wells	Footage	Wells	Footage	Wells	Footage	Wells	Footage
January 1978	81	460,953	144	1,005,373	656	3,696,353	881	5,162,679
February	94	547,028	119	882,573	547	3,313,784	760	4,743,385
March	89	553,887	146	986,336	641	3,908,651	876	5,448,874
April	109	675,110	160	1,087,779	627	3,585,470	896	5,348,359
May	119	725,642	155	985,437	640	3,708,115	914	5,419,194
June	113	662,057	152	1,071,060	660	3,702,243	925	5,435,360
July	98	597,959	144	875,662	700	4,107,589	942	5,581,210
August	96	600,403	152	943,104	683	3,922,128	931	5,465,635
September	97	554,615	143	923,858	698	4,040,009	938	5,518,482
October	103	658,130	189	1,297,631	779	4,330,030	1,071	6,285,791
November	99	564,775	132	799,576	703	4,110,150	934	5,474,501
December	91	497,898	150	922,301	721	4,191,541	962	5,611,740
Total 1978	1,189	7,098,457	1,786	11,780,690	8,055	46,616,063	11,030	65,495,210
January 1979	84	537,696	130	843,908	573	3,524,833	787	4,906,437
February	86	562,474	119	827,200	479	2,987,910	684	4,377,584
March	114	835,885	164	1,165,430	532	3,187,199	810	5,188,514
April	96	599,692	152	943,969	533	3,117,601	781	4,661,262
May	78	435,366	157	1,048,576	566	3,264,304	801	4,748,246
June	113	646,371	181	1,101,082	604	3,283,596	898	5,031,049
July	122	736,989	151	972,987	614	3,356,686	887	5,066,662
August	103	565,432	157	987,575	716	3,973,835	976	5,526,842
September	129	756,400	158	1,020,405	685	3,823,618	972	5,600,423
October	142	859,187	217	1,504,354	734	4,128,404	1,093	6,491,945
November	131	743,826	163	1,065,488	718	3,905,141	1,012	5,714,455
December	137	712,261	172	1,153,406	725	4,183,577	1,034	6,049,244
Total 1979	1,335	7,991,579	1,921	12,634,380	7,479	42,736,704	10,735	63,362,663
January 1980	142	747,733	159	1,101,579	718	4,096,912	1,019	5,946,224
February	138	902,093	169	1,183,140	608	3,357,813	915	5,443,046
March	143	760,321	155	1,028,484	619	3,642,390	917	5,431,195
April	139	780,452	172	1,230,724	630	3,563,035	941	5,574,211
May	126	733,061	127	920,068	675	3,945,382	928	5,598,511
June	140	722,266	189	1,130,944	747	4,162,526	1,076	5,015,736
July	135	818,556	185	1,169,267	770	4,192,473	1,090	6,180,296
August	162	924,871	153	949,884	842	4,567,661	1,157	6,442,416
September	167	906,952	206	1,426,319	840	4,567,307	1,213	6,900,578
October	150	893,984	212	1,301,414	838	4,510,157	1,200	6,705,555
November	150	804,102	186	1,173,879	825	4,549,355	1,161	6,527,336
December	185	1,115,158	172	1,094,736	896	4,837,428	1,253	7,047,322
Total 1980	1,777	10,109,549	2,085	13,710,438	9,008	49,992,439	12,870	73,812,426
January 1981	220	1,199,057	204	1,466,051	1,005	5,549,007	1,429	8,214,155
February	175	1,018,859	183	1,225,822	799	4,463,730	1,157	6,708,411
March	209	1,222,837	192	1,307,170	898	5,315,609	1,299	7,845,616
April	183	1,113,396	214	1,464,146	908	5,034,598	1,305	7,612,140
May	231	1,292,095	224	1,499,791	934	5,451,658	1,389	8,243,544
June	219	1,306,236	208	1,345,173	1,006	5,616,080	1,433	8,267,489
July	245	1,494,502	205	1,372,320	1,053	5,619,529	1,503	8,486,351
August	235	1,403,437	239	1,652,571	1,127	6,213,002	1,601	9,269,010
September	225	1,259,232	241	1,631,294	1,090	6,103,472	1,556	8,993,998
October	239	1,373,425	211	1,355,977	1,161	6,412,575	1,611	9,141,977
November	225	1,270,686	189	1,189,814	1,101	6,148,986	1,515	8,609,486
December	255	1,464,298	212	1,486,325	1,165	6,725,744	1,632	9,676,367
Total 1981	2,661	15,418,060	2,522	16,996,454	12,247	68,653,990	17,430	101,068,544

Exploratory Well Completions
As Completed*

	Oil		Gas		Dry		Total	
	Wells	Footage	Wells	Footage	Wells	Footage	Wells	Footage
January 1982	246	1,424,258	216	1,496,925	1,157	6,786,020	1,619	9,707,203
February	186	1,113,532	172	1,239,172	927	5,728,305	1,285	8,081,009
March	266	1,570,613	218	1,562,049	975	5,843,210	1,459	8,975,872
April	229	1,336,078	167	1,162,142	928	4,996,971	1,324	7,495,191
May	182	1,014,619	175	1,288,725	859	4,607,791	1,216	6,911,135
June	216	1,217,133	182	1,261,992	871	4,466,006	1,269	6,945,131
July	179	908,030	186	1,244,549	898	4,625,584	1,263	6,778,163
August	201	1,065,884	172	1,092,585	911	4,669,265	1,284	6,827,734
September	183	926,264	156	1,068,231	865	4,565,248	1,204	6,559,743
October	205	978,259	153	1,096,154	916	4,679,062	1,274	6,753,475
November	176	882,212	153	1,029,493	816	3,925,089	1,145	5,836,794
December	180	918,428	157	954,726	924	4,836,510	1,261	6,709,664
Total 1982	2,449	13,355,310	2,107	14,496,743	11,047	59,729,061	15,603	87,581,114
January 1983	194	924,914	159	1,051,460	942	4,895,279	1,295	6,871,653
February	169	906,631	146	988,959	702	3,711,093	1,017	5,606,683
March	174	933,550	148	890,628	771	4,076,626	1,093	5,900,804
April	177	870,476	133	868,733	640	3,336,040	950	5,075,249
May	159	925,095	150	984,934	772	3,793,506	1,081	5,703,535
June	165	797,001	130	841,296	828	3,539,990	1,123	5,178,287
July	179	821,521	130	725,264	828	3,667,873	1,137	5,214,658
August	183	785,072	135	780,256	874	3,834,733	1,192	5,400,061
September	174	860,222	131	774,003	886	4,023,214	1,191	5,657,439
October	203	1,066,423	137	818,381	917	4,437,286	1,257	6,322,090
November	170	836,899	111	686,553	924	4,467,397	1,205	5,990,849
December	153	758,956	125	758,539	816	4,248,493	1,094	5,765,988
Total 1983	2,100	10,486,760	1,635	10,169,006	9,900	48,031,530	13,635	68,687,296
January 1984	236	1,193,956	132	787,686	1,011	5,316,992	1,379	7,298,634
February	206	1,163,415	150	889,126	812	4,442,097	1,168	6,494,638
March	217	1,209,627	153	1,035,629	743	4,181,409	1,113	6,426,665
April	156	918,420	99	678,757	755	4,062,923	1,010	5,660,100
May	215	1,169,523	134	841,878	845	4,622,042	1,194	6,633,443
June	201	1,137,164	135	786,190	1,078	5,330,407	1,414	7,253,761
July	191	992,533	153	1,011,495	1,062	5,235,591	1,406	7,239,619
August	187	998,761	124	806,449	1,075	5,537,338	1,386	7,342,548
September	216	1,170,730	129	871,775	908	4,606,902	1,253	6,649,407
October	159	825,650	140	898,937	961	4,859,978	1,260	6,584,565
November	179	988,586	111	666,224	865	4,753,817	1,155	6,408,627
December	157	801,052	105	584,011	949	5,434,722	1,211	6,819,785
Total 1984	2,320	12,569,417	1,565	9,858,157	11,064	58,384,218	14,949	80,811,792
January 1985	168	1,037,764	146	1,003,940	864	5,064,725	1,178	7,106,429
February	161	1,016,343	120	842,658	686	4,079,789	967	5,938,790
March	174	1,066,506	111	720,714	732	4,118,683	1,017	5,905,903
April	125	703,572	115	793,516	713	4,012,589	953	5,509,677
May	152	898,719	123	782,022	676	3,796,669	951	5,477,410
June	125	665,297	116	828,999	689	3,430,782	930	4,925,078
July	130	754,334	95	605,360	751	3,879,789	976	5,239,483
August	165	985,120	99	664,614	803	4,156,488	1,067	5,806,222
September	113	622,860	78	536,339	729	3,929,212	920	5,088,411
October	142	797,510	86	519,008	768	4,040,627	996	5,357,145
November	105	618,639	89	675,036	677	3,695,632	871	4,990,307
December	145	858,892	86	600,865	837	4,707,092	1,068	6,166,849
Total 1985	1,705	10,025,556	1,264	8,574,071	8,925	48,912,077	11,894	67,511,704

Exploratory Well Completions
As Completed*

	Oil		Gas		Dry		Total	
	Wells	Footage	Wells	Footage	Wells	Footage	Wells	Footage
January 1986	178	1,040,316	106	636,279	728	4,249,095	1,012	5,925,690
February	112	717,793	73	529,741	490	3,116,871	675	4,364,405
March	111	751,183	64	528,666	540	3,110,259	715	4,390,108
April	92	648,701	63	516,288	433	2,451,675	588	3,616,664
May	72	420,331	39	339,255	397	2,307,831	508	3,067,417
June	53	301,097	46	294,603	307	1,709,036	406	2,304,736
July	71	398,225	57	331,234	349	1,827,637	477	2,557,096
August	47	252,794	58	350,927	367	1,912,095	472	2,515,816
September	40	184,975	59	333,001	312	1,723,710	411	2,241,686
October	46	281,243	42	303,246	356	1,933,639	444	2,518,128
November	55	306,440	52	348,462	400	2,092,419	507	2,747,321
December	72	474,008	48	325,036	458	2,537,030	575	3,336,074
Total 1986	949	5,777,106	704	4,836,738	5,137	28,971,297	6,790	39,585,141

* Subject to change as additional wells are reported which were completed in recent years.

Data from Oil & Gas Journal Energy Database
Source: American Petroleum Institute

Well Completions by Depth Interval
As Completed*

	1980	1981	1982	1983	1984	1985	1986
0- 1,249 ft	7,135	9,454	11,996	11,976	12,316	9,443	4,443
1,250- 2,499 ft	10,876	13,301	14,458	13,626	14,449	11,927	6,092
2,500- 3,749 ft	11,639	15,419	15,544	13,266	14,832	11,517	5,463
3,750- 4,999 ft	9,264	12,927	13,192	11,379	13,503	11,221	5,409
5,000- 7,499 ft	10,182	13,092	12,658	11,226	12,998	11,651	6,161
7,500- 9,999 ft	6,773	8,444	7,799	6,576	8,074	7,024	3,877
10,000-12,499 ft	2,907	3,526	3,715	3,007	3,718	3,374	1,878
12,500-14,999 ft	1,323	1,504	1,871	1,220	1,379	1,270	789
15,000-17,499 ft	497	603	806	505	520	476	264
17,500-19,999 ft	150	201	341	187	141	144	88
20,000 ft and over	65	91	137	69	46	43	28
Total U.S	60,901	78,562	82,517	73,048	82,006	68,090	34,492

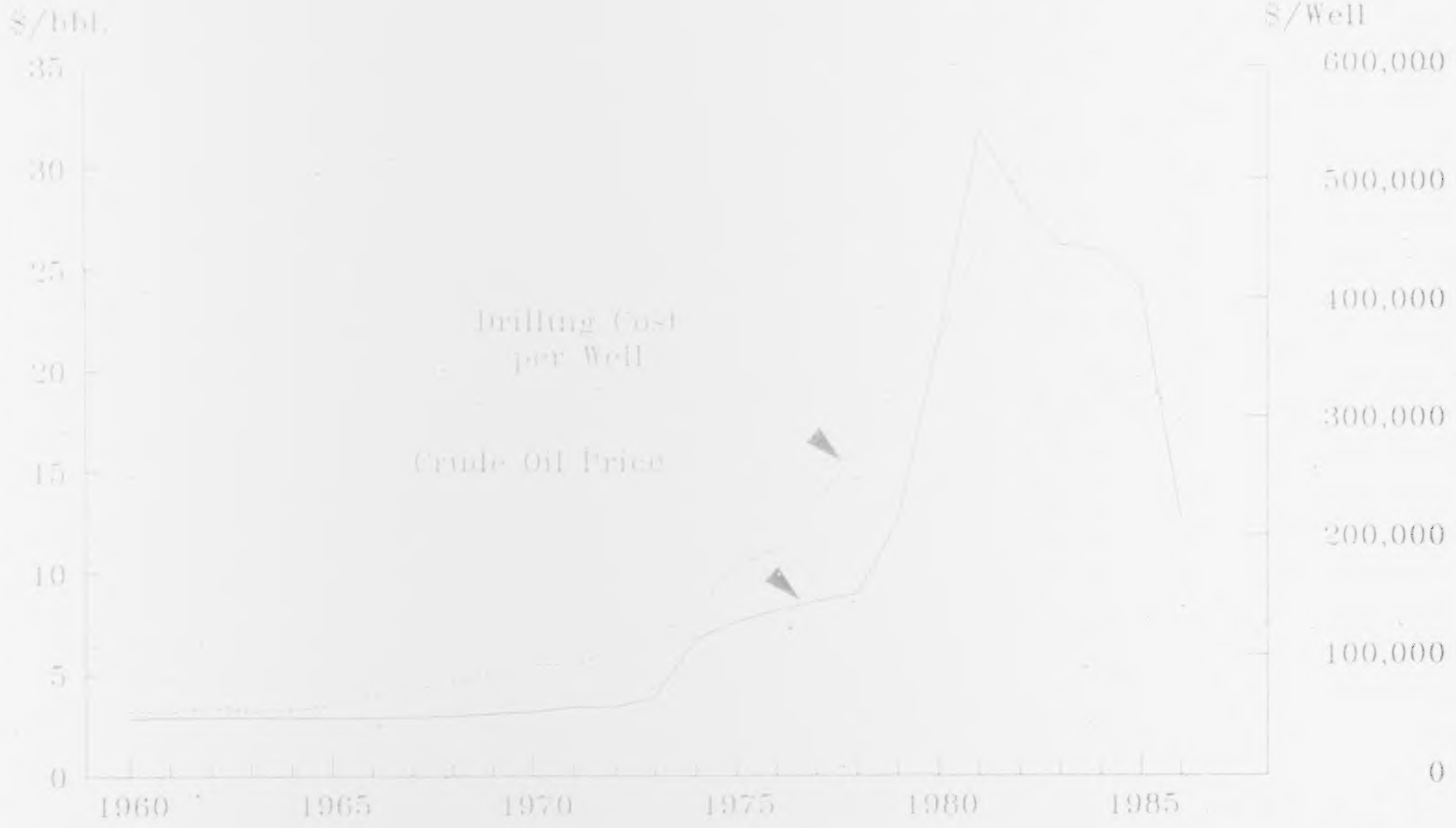
Footage Drilled by Depth Interval
As Completed*
Thousands of Feet

	1980	1981	1982	1983	1984	1985	1986
0- 1,249 ft	5,931.8	7,711.6	9,592.0	9,526.2	10,289.3	7,979.0	3,607.5
1,250- 2,499 ft	20,369.5	24,767.0	26,290.3	24,481.7	25,348.2	21,071.5	10,715.4
2,500- 3,749 ft	36,444.8	48,563.3	48,968.6	41,895.2	47,029.8	36,385.2	17,064.2
3,750- 4,999 ft	39,903.6	55,696.3	56,653.5	48,964.4	58,013.4	48,384.9	23,315.1
5,000- 7,499 ft	61,427.1	78,492.4	75,991.7	67,187.1	83,406.0	70,194.2	37,214.5
7,500- 9,999 ft	58,038.7	72,194.0	66,065.6	42,209.0	68,807.5	60,035.7	33,280.1
10,000-12,499 ft	32,877.3	38,599.3	40,471.8	32,718.9	41,016.1	36,787.5	20,468.1
12,500-14,999 ft	17,765.4	20,046.6	25,047.1	16,263.8	18,243.3	16,899.2	10,456.0
15,000-17,499 ft	7,887.9	9,624.1	13,014.6	8,075.7	8,168.9	7,563.2	4,187.2
17,500-19,999 ft	2,774.0	3,667.9	6,287.4	3,430.8	2,564.0	2,659.7	1,598.9
20,000 ft and over	1,384.3	2,116.4	3,012.0	1,520.4	964.0	935.4	613.5
Total U.S	284,804.4	361,478.8	372,294.6	310,272.5	363,850.4	308,895.5	162,520.6

* Data for 1980-1981 are on an as reported basis. Data from 1982-1986 are on an as completed basis and are subject to revision as additional wells are reported.

Data from Oil & Gas Journal Energy Database
Source: American Petroleum Institute

Wellhead Price of Crude and Drilling Costs



Source: BOM, API, EIA, JAS

Joint Association Survey on Drilling Costs
Total U.S. Wells

	Number of Wells Surveyed	Total Footage Mil. ft.	Total Cost Mil. $	Average Depth per Well	Average Cost per Well
1959	49,563	205.5	2,651.1	4,146	53,500
1960	44,133	186.4	2,424.4	4,223	54,934
1961	43,988	166.7	2,398.2	4,244	54,518
1962	43,944	193.6	2,576.7	4,405	58,635
1963	41,853	181.5	2,302.9	4,336	55,023
1964	43,486	188.7	2,427.4	4,340	55,820
1965	39,596	178.7	2,407.4	4,513	60,648
1966	34,521	157.9	2,360.7	4,575	68,386
1967	31,538	144.0	2,299.2	4,566	72,902
1968	29,576	143.1	2,409.4	4,839	81,463
1969	29,481	148.7	2,610.7	5,044	88,554
1970	27,177	136.9	2,578.7	5,037	94,885
1971	25,040	124.6	2,371.5	4,978	94,708
1972	26,443	135.5	2,814.2	5,126	106,424
1973	26,244	136.7	3,074.5	5,207	117,152
1974	31,481	150.9	4,367.0	4,795	138,718
1975	36,960	177.6	6,571.2	4,806	177,793
1976	38,941	184.4	7,461.7	4,736	191,615
1977	43,826	212.7	9,956.5	4,853	229,181
1978	46,655	230.6	13,061.1	4,943	279,950
1979	48,523	237.5	16,078.9	4,894	331,367
1980	62,011	296.0	22,800.4	4,773	367,682
1981	80,816	388.8	36,665.5	4,811	453,651
1982	76,652	362.6	39,428.1	4,731	514,378
1983	67,536	301.2	25,104.5	4,460	371,721
1984	77,210	350.6	25,206.2	4,541	326,463
1985	67,821	314.5	23,696.6	4,637	349,399

Joint Association Survey on Drilling Costs
Total U.S. Oil Wells

	Number of Wells Surveyed	Total Footage Mil. ft.	Total Cost Mil. $	Average Depth per Well	Average Cost per Well
1959	25,413	96.9	1,321.4	3,814	51,998
1960	21,294	84.0	1,110.9	3,946	52,160
1961	21,204	82.9	1,086.8	3,911	51,253
1962	21,402	86.5	1,160.5	4,041	54,223
1963	20,678	81.1	1,071.1	3,922	51,801
1964	21,012	81.0	1,063.0	3,854	50,590
1965	18,857	76.6	1,066.8	4,059	56,573
1966	15,856	65.6	985.8	4,134	62,169
1967	14,935	59.9	995.4	4,013	66,647
1968	13,767	58.5	1,089.3	4,246	79,126
1969	12,915	57.9	1,117.1	4,486	86,499
1970	12,547	56.4	1,088.1	4,496	86,718
1971	11,405	48.6	894.5	4,260	78,431
1972	10,753	48.4	1,005.5	4,501	93,506
1973	9,705	44.7	1,007.0	4,602	103,758
1974	13,073	51.8	1,440.3	3,960	110,176
1975	16,276	66.1	2,256.5	4,059	138,640
1976	16,876	68.3	2,549.7	4,044	151,064
1977	18,077	74.7	3,072.8	4,130	169,981
1978	17,790	74.4	3,700.0	4,182	207,983
1979	19,243	80.3	4,678.6	4,170	243,130
1980	28,553	117.1	7,768.4	4,099	272,070
1981	38,725	162.0	13,022.8	4,183	336,289
1982	35,865	144.3	12,458.6	4,024	347,374
1983	33,485	130.8	9,503.8	3,907	283,821
1984	38,976	154.0	10,214.2	3,952	262,065
1985	33,800	136.9	9,141.1	4,050	270,446

Joint Association Survey on Drilling Costs
Total U.S. Gas Wells

	Number of Wells Surveyed	Total Footage Mil. ft.	Total Cost Mil. $	Average Depth per Well	Average Cost per Well
1959	5,049	27.6	508.9	5,464	100,791
1960	5,262	29.1	540.2	5,526	102,656
1961	5,674	30.4	537.4	5,366	94,719
1962	5,858	31.4	568.8	5,366	97,093
1963	4,779	25.7	441.4	5,373	92,368
1964	4,874	27.5	510.6	5,641	104,753
1965	4,772	26.5	486.1	5,552	101,865
1966	4,060	25.0	543.3	6,151	133,806
1967	3,558	21.8	501.7	6,116	140,995
1968	3,324	20.5	493.7	6,177	148,537
1969	3,927	23.7	606.0	6,034	154,318
1970	3,844	23.1	617.6	6,007	160,662
1971	3,679	22.1	612.9	6,013	166,582
1972	5,086	28.9	802.4	5,679	157,764
1973	6,427	36.3	997.9	5,654	155,272
1974	6,695	37.1	1,266.5	5,546	189,177
1975	7,654	43.4	2,005.4	5,667	262,008
1976	8,904	48.4	2,401.4	5,432	270,375
1977	11,479	62.5	3,599.1	5,446	313,538
1978	13,306	72.8	4,978.8	5,472	374,178
1979	14,079	77.3	6,238.1	5,493	443,080
1980	15,225	85.8	8,166.7	5,636	536,402
1981	17,533	100.3	12,248.1	5,718	698,576
1982	17,052	100.8	14,737.7	5,912	864,278
1983	12,919	72.5	7,855.8	5,611	608,078
1984	14,983	82.6	7,338.8	5,516	489,808
1985	13,854	75.7	7,047.1	5,465	508,672

Joint Association Survey on Drilling Costs
Total U.S. Dry Holes

	Number of Wells Surveyed	Total Footage Mil. ft.	Total Cost Mil. $	Average Depth per Well	Average Cost per Well
1959	19,101	81.0	820.8	4,240	42,970
1960	17,577	73.3	773.5	4,168	44,009
1961	17,110	73.3	774.0	4,284	45,235
1962	16,684	75.6	847.4	4,533	50,793
1963	16,396	74.7	790.3	4,556	48,201
1964	17,600	80.3	853.8	4,560	48,512
1965	15,967	75.7	848.5	4,739	53,143
1966	14,605	67.4	831.7	4,614	56,949
1967	13,045	62.3	802.2	4,777	61,491
1968	12,485	64.1	826.3	5,137	66,183
1969	12,639	67.1	887.5	5,307	70,222
1970	10,786	57.4	873.0	5,320	80,942
1971	9,956	53.9	864.1	5,418	86,795
1972	10,604	58.3	1,006.3	5,493	94,899
1973	10,112	55.7	1,069.6	5,504	105,778
1974	11,713	62.1	1,660.1	5,297	141,733
1975	13,030	68.2	2,309.3	5,234	177,229
1976	13,159	67.8	2,504.6	5,152	190,334
1977	14,270	75.5	3,284.6	5,292	230,175
1978	15,559	83.4	4,382.2	5,359	281,653
1979	15,201	79.9	5,162.2	5,256	339,598
1980	18,233	93.1	6,865.2	5,108	376,525
1981	24,558	126.6	11,394.5	5,154	463,934
1982	23,735	117.5	12,231.9	4,951	515,352
1983	21,132	97.9	7,745.0	4,633	366,507
1984	23,251	113.9	7,653.2	4,900	329,155
1985	20,167	101.9	7,508.4	5,053	372,311

Data from Oil & Gas Journal Energy Database
Source: Joint Association Survey, sponsored by American Petroleum Institute, Independent Petroleum Association of America and Mid-Continent Oil & Gas Association

Average Drilling Cost per Well
Dollars per well

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Alabama	276,174	167,703	253,678	250,326	585,758	515,126	588,930	664,152	449,220	539,312
Alaska	1,762,657	1,396,305	1,777,382	1,349,732	2,301,697	2,708,388	3,004,901	3,603,075	4,153,581	3,800,383
Land	1,647,560	1,412,615	1,841,463	1,434,952	2,522,856	2,802,491	3,180,941	3,979,284	4,352,785	3,807,053
Offshore	2,141,670	858,080	1,424,935	1,094,070	1,638,222	2,198,053	2,016,456	2,192,292	2,393,948	3,622,508
Arkansas	62,375	70,263	75,504	91,895	113,666	127,063	123,398	133,005	180,993	190,973
California	73,100	66,545	83,979	91,785	88,965	106,906	139,341	163,540	231,816	256,185
Central Coastal	109,820	106,217	153,308	154,526	179,448	186,010	203,638	188,642	253,702	301,690
East Central	28,283	27,476	38,206	45,659	66,360	74,352	98,126	100,022	167,161	175,671
North	81,305	98,370	120,214	150,633	118,760	147,452	178,445	189,920	222,801	324,383
South	112,292	113,287	126,018	165,826	198,176	131,904	172,931	262,694	350,661	439,058
Offshore	166,743	336,761	287,607	210,520	270,658	384,348	1,646,355	1,556,611	1,358,814	1,418,603
Colorado	57,818	53,281	62,863	77,215	100,737	132,283	131,019	157,133	166,364	205,750
Florida	NA	431,599	521,579	427,393	493,967	619,626	671,660	792,970	1,234,769	1,222,134
Illinois	18,197	17,101	19,354	24,516	40,884	40,236	41,823	52,486	47,002	63,598
Indiana	8,130	9,841	11,432	14,835	22,959	26,907	28,174	36,570	36,770	40,094
Kansas	22,331	21,803	26,408	28,049	37,263	51,774	52,682	58,837	69,354	74,241
Kentucky	13,021	16,077	16,481	26,209	26,525	30,190	31,980	34,637	45,695	40,038
Louisiana	232,715	[illegible]	318,111	318,980	357,009	488,688	490,823	654,017	821,298	943,827
North	32,098	37,646	40,594	53,131	72,228	95,122	96,384	114,677	131,203	136,756
South	263,886	273,608	317,582	328,163	418,014	502,961	593,510	748,344	1,067,322	1,295,388
Offshore	[illegible]	531,524	649,832	668,620	834,163	1,086,833	1,269,059	1,569,822	2,109,712	2,377,951
Michigan	47,117	[illegible]	97,559	129,516	162,877	184,550	170,300	194,383	231,963	245,940
Mississippi	142,068	210,285	207,011	198,112	226,310	268,774	277,180	414,491	547,795	532,683
Montana	56,478	44,929	38,768	37,511	56,986	70,972	108,650	128,764	171,190	208,834
Nebraska	22,176	22,981	24,051	30,658	39,513	46,420	50,254	67,686	64,974	85,569
New Mexico	96,407	88,835	100,424	119,456	170,895	233,860	197,062	229,954	282,041	320,534
East	116,090	102,985	126,008	165,087	216,620	295,676	240,163	292,137	356,223	436,359
West	51,880	61,578	57,170	69,283	90,459	139,735	134,093	158,648	200,297	207,878
North Dakota	79,158	78,809	99,258	129,235	151,468	196,353	270,368	359,740	503,209	701,035
Oklahoma	75,865	79,303	93,601	103,987	134,854	176,957	187,290	210,983	258,837	304,022
Texas	95,113	85,378	87,280	108,272	142,793	172,761	209,230	234,715	288,383	325,590
RRC District 1	40,639	39,514	45,733	50,524	72,366	95,943	164,017	197,599	170,632	130,767
RRC District 2	86,670	78,433	89,072	91,122	121,896	168,222	183,079	217,279	254,103	336,339
RRC District 3	83,850	91,342	99,488	135,626	203,639	261,052	285,412	371,834	437,497	525,354
RRC District 4	104,185	93,278	111,503	122,550	178,919	234,757	303,349	353,692	426,389	521,589
RRC District 5	101,219	113,666	118,461	153,908	147,453	201,179	282,520	420,372	491,707	643,433
RRC District 6	69,912	71,298	82,743	131,826	194,356	199,015	268,208	377,138	535,122	673,418
RRC District 7B	21,440	24,371	21,430	27,733	42,567	55,271	63,229	66,827	79,063	96,375
RRC District 7C	70,617	63,523	74,049	84,608	110,808	159,176	150,430	160,218	189,852	201,041
RRC District 8	155,507	179,351	153,438	183,205	221,678	219,219	242,643	294,609	326,674	326,091
RRC District 8A	65,004	72,036	74,350	79,028	102,769	144,066	160,562	186,469	222,080	216,843
RRC District 9	23,521	20,784	19,690	34,171	42,722	43,034	52,525	60,911	86,909	96,789
RRC District 10	172,959	159,441	169,620	174,689	199,232	291,938	279,236	384,036	413,465	481,026
Offshore	642,290	595,327	646,903	715,532	955,343	1,415,376	1,616,542	1,691,564	2,106,650	2,763,576
Utah	275,090	294,062	513,218	538,835	501,915	696,963	574,552	444,536	560,753	752,944
Wyoming	97,775	93,484	103,527	126,663	218,389	293,217	305,942	374,996	485,849	734,092
*Appalachia	38,392	37,540	41,733	46,510	54,926	65,482	70,113	76,875	91,839	104,355
Gulf of Mexico-North	NA	NA	NA	NA	944,186	2,063,593	3,253,523	2,451,938	2,443,609	4,286,167
Offshore Fed. Waters	NA	NA	NA	NA	NA	NA	NA	NA	4,487,172	5,572,133
Total U.S.	94,885	94,708	106,424	117,152	138,718	177,793	191,615	229,181	279,950	331,367

Average Drilling Cost per Well
Dollars per well

	1980	1981	1982	1983	1984	1985
Alabama	639,897	730,667	941,049	723,911	480,986	470,911
Alaska	3,851,403	4,312,574	4,232,782	3,576,143	2,835,914	2,427,333
Land	3,862,089	4,312,574	4,141,942	3,247,861	2,752,538	2,350,075
Offshore	7,333,887	NA	9,985,987	18,348,842	5,003,694	4,689,882
Arkansas	265,114	266,891	336,096	253,238	228,326	241,423
California	310,933	365,183	522,535	469,257	318,396	274,566
Central Coastal	410,177	482,036	823,770	588,276	733,452	673,926
East Central	207,127	217,561	295,333	218,800	176,322	148,169
North	385,222	470,078	543,204	478,407	521,698	465,383
South	477,253	542,982	657,445	543,502	762,872	443,030
Offshore	1,306,270	1,902,653	2,516,362	4,299,788	2,217,539	2,416,455
Colorado	247,715	360,001	382,971	301,335	317,911	331,554
Florida	1,449,830	2,240,424	2,021,155	2,653,856	1,555,188	13,831
Illinois	68,338	93,257	83,741	75,318	82,802	81,521
Indiana	42,467	59,807	56,921	44,017	49,093	66,350
Kansas	88,399	110,584	101,870	85,431	97,338	100,047
Kentucky	43,264	54,750	51,013	43,047	43,407	38,602
Louisiana	1,041,498	1,269,385	1,413,348	1,023,079	756,862	837,355
North	174,886	204,345	194,277	155,235	111,253	118,234
South	1,748,634	2,071,952	2,498,035	1,478,193	1,140,258	1,257,908
Offshore	3,040,376	3,786,282	4,084,572	3,200,590	3,011,285	3,243,563
Michigan	243,538	312,350	331,984	253,878	248,387	378,680
Mississippi	760,053	887,979	1,018,762	668,499	492,710	578,368
Montana	301,307	516,964	471,394	349,376	333,849	372,964
Nebraska	109,156	137,186	141,941	130,144	123,279	101,272
New Mexicc	398,691	519,337	585,928	464,058	410,716	432,371
East	487,628	659,815	672,675	509,737	436,334	398,025
West	308,074	361,429	400,042	378,832	358,082	455,518
North Dakota	891,304	1,124,919	1,254,430	765,232	616,805	565,944
Oklahoma	326,745	450,544	732,995	447,794	311,341	345,162
Texas	376,527	477,782	494,907	347,074	394,521	343,163
RRC District 1	192,680	265,648	198,224	129,921	117,034	117,008
RRC District 2	460,968	607,558	852,947	502,087	484,103	594,588
RRC District 3	647,407	896,434	933,186	609,423	637,512	610,344
RRC District 4	633,246	916,090	1,105,490	800,707	755,958	717,566
RRC District 5	600,871	750,390	505,546	454,282	502,989	819,434
RRC District 6	665,885	799,209	905,045	604,243	590,411	529,092
RRC District 7B	111,241	140,956	125,177	104,360	96,748	98,865
RRC District 7C	260,510	339,680	337,408	261,431	257,103	286,745
RRC District 8	391,623	548,249	603,246	411,360	381,674	395,262
RRC District 8A	262,129	375,904	358,868	303,979	278,308	283,081
RRC District 9	118,617	151,448	146,860	110,274	127,603	121,631
RRC District 10	435,519	506,768	596,513	400,279	361,749	337,657
Offshore	3,186,593	4,035,114	4,850,671	4,631,861	4,199,762	3,729,026
Utah	941,609	1,255,703	1,332,612	1,292,251	909,564	1,041,085
Wyoming	817,654	923,963	1,132,357	732,314	610,806	561,052
*Appalachia	111,033	126,849	137,136	127,354	122,416	122,321
Gulf of Mexico-North	4,652,956	7,192,749	4,656,821	6,434,076	7,630,138	7,422,575
Offshore Fed. Waters	6,126,057	7,893,016	6,375,853	8,144,142	8,823,908	8,989,247
Total U.S.	367,682	453,691	514,378	371,721	326,463	349,399

* Appalachia includes New York, Ohio, Pennsylvania, and West Virginia

Data from Oil & Gas Journal Energy Database
Source: Joint Association Survey

Average Drilling Cost per Foot
Dollars per foot

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Alabama	25.64	21.67	23.82	23.43	52.92	53.02	60.78	78.48	64.59	81.64
Alaska	163.15	131.88	186.60	135.28	228.43	257.11	272.95	342.37	395.50	345.77
Land	156.05	131.31	193.84	143.09	266.41	273.84	291.96	380.07	422.93	346.92
Offshore	184.36	173.00	147.48	111.34	137.76	180.51	176.04	204.35	193.79	316.02
Arkansas	11.72	12.25	13.34	15.99	20.89	25.03	26.00	26.84	36.18	38.52
California	23.83	23.24	24.50	26.05	32.61	39.38	50.71	60.57	70.94	83.26
Central Coastal	21.84	24.59	32.20	31.39	42.79	47.77	53.63	55.56	69.05	84.55
East Central	14.32	14.83	17.31	20.20	29.66	37.88	45.87	47.43	62.49	72.80
North	13.45	15.54	18.96	23.96	19.71	24.51	29.17	32.28	38.65	50.76
South	28.17	27.36	31.32	36.14	46.37	40.57	55.87	68.52	83.89	99.51
Offshore	83.06	88.59	53.57	39.64	55.47	81.92	257.65	290.68	206.82	210.85
Colorado	9.14	8.74	10.96	12.95	16.83	22.83	24.91	29.69	33.07	40.45
Florida	NA	32.11	35.39	32.22	42.66	48.90	54.96	63.61	95.36	97.40
Illinois	7.88	7.70	8.37	9.52	15.70	15.99	16.96	18.12	16.75	23.75
Indiana	6.80	6.91	8.10	9.78	13.77	14.78	16.40	17.12	18.37	21.28
Kansas	7.01	6.96	7.73	8.59	12.20	16.04	16.63	17.87	20.59	22.11
Kentucky	9.32	10.69	10.14	15.51	16.77	19.62	22.01	24.74	31.00	28.24
Louisiana	33.94	34.89	39.20	41.34	49.53	65.13	71.15	90.26	112.17	133.80
North	9.40	22.37	11.23	15.18	18.70	24.93	27.68	30.60	36.21	39.08
South	26.09	26.88	30.10	31.45	42.47	51.45	57.71	70.68	95.62	118.27
Offshore	53.68	56.74	63.00	68.51	87.25	109.42	129.69	160.84	204.59	234.44
Michigan	12.13	15.08	18.82	24.33	31.61	37.26	35.36	39.94	47.96	51.89
Mississippi	15.41	22.80	22.23	21.09	27.10	33.20	33.91	48.34	59.65	60.79
Montana	12.44	12.05	12.33	13.21	19.52	23.77	29.68	34.04	44.28	52.29
Nebraska	4.41	4.75	5.06	5.98	7.65	9.24	10.13	13.58	13.23	19.93
New Mexico	16.78	16.09	17.33	21.02	29.29	38.60	36.93	41.14	49.94	55.42
East	17.56	17.03	18.68	23.72	32.60	41.36	38.77	45.33	56.07	64.10
West	13.70	13.66	13.64	16.20	20.53	31.77	32.87	34.41	41.12	43.42
North Dakota	12.43	12.33	15.44	17.64	21.60	29.31	37.60	45.84	59.23	78.49
Oklahoma	14.15	14.80	16.71	18.38	25.29	33.75	35.17	40.53	49.75	59.72
Texas	16.00	15.99	16.60	19.41	27.05	33.49	38.85	43.45	51.95	60.12
RRC District 1	10.29	9.76	13.34	13.18	20.16	26.59	33.38	37.89	39.09	39.72
RRC District 2	13.27	12.07	13.81	15.41	20.47	27.42	30.17	35.65	41.45	54.26
RRC District 3	14.01	15.02	15.47	19.77	32.24	39.78	41.29	52.64	59.82	70.28
RRC District 4	16.50	14.67	16.85	18.77	27.80	37.71	45.43	51.58	60.85	72.95
RRC District 5	15.24	17.26	16.89	21.20	25.16	34.02	49.46	60.53	73.36	90.22
RRC District 6	13.06	14.50	14.43	19.41	27.99	31.79	38.14	50.82	65.97	81.22
RRC District 7B	7.50	7.95	7.60	8.79	13.07	16.68	18.56	20.85	23.46	30.02
RRC District 7C	13.02	12.42	12.98	14.25	18.97	26.24	25.94	28.14	33.10	35.30
RRC District 8	23.04	24.00	23.28	27.03	35.00	37.86	40.80	49.25	55.17	57.29
RRC District 8A	11.45	12.21	12.36	14.08	18.65	24.96	26.54	30.33	36.25	36.73
RRC District 9	7.61	7.28	7.34	10.36	13.85	16.28	18.21	19.52	24.59	27.63
RRC District 10	24.33	28.17	24.85	25.84	30.57	40.28	40.98	51.78	56.15	67.73
Offshore	67.59	57.20	65.13	81.18	117.75	158.82	176.19	183.77	230.16	295.66
Utah	32.42	42.18	56.92	60.69	59.67	84.38	81.29	71.46	87.47	124.10
Wyoming	13.93	14.68	15.08	18.83	31.66	40.86	42.70	50.42	70.95	95.52
Appalachia *	11.82	12.15	12.66	13.67	17.42	20.64	21.91	23.30	27.37	31.37
Gulf of Mexico-North	NA	NA	NA	NA	114.11	191.53	339.44	228.38	262.78	460.93
Offshore Fed. Waters	NA	NA	NA	NA	NA	NA	NA	NA	432.50	516.37
Total U.S.	18.84	19.03	20.76	22.50	28.93	36.99	40.46	47.22	56.64	67.71

Average Drilling Cost per Foot
Dollars per foot

	1980	1981	1982	1983	1984	1985
Alabama	100.87	125.80	150.66	127.65	94.76	89.05
Alaska	369.51	419.63	422.90	364.21	325.18	273.19
Land	370.86	419.63	414.40	332.81	317.81	267.75
Offshore	198.58	NA	913.71	1461.71	486.60	388.65
Arkansas	50.37	54.76	68.06	54.02	47.43	58.60
California	97.11	123.71	148.91	149.21	122.22	109.08
Central Coastal	104.96	124.82	163.67	110.43	167.72	156.29
East Central	86.70	98.94	111.36	96.81	90.56	81.41
North	58.70	72.58	83.79	69.85	78.52	68.65
South	117.46	149.42	147.38	137.94	172.35	117.20
Offshore	216.84	329.01	396.59	597.60	341.21	389.82
Colorado	46.93	63.30	67.70	49.59	53.47	54.32
Florida	114.02	177.45	151.14	201.02	114.95	127.37
Illinois	25.53	33.43	31.18	31.74	32.47	33.70
Indiana	22.02	31.31	29.37	23.23	26.16	34.61
Kansas	26.01	31.24	31.44	27.37	26.56	27.42
Kentucky	30.73	36.16	34.77	30.81	30.63	27.53
Louisiana	158.67	189.69	212.73	160.53	139.57	146.93
North	50.05	56.64	54.53	45.94	40.59	41.82
South	158.28	181.89	220.48	140.59	112.01	124.16
Offshore	292.68	364.70	386.32	308.55	296.33	311.28
Michigan	53.43	70.80	73.29	56.22	51.78	58.71
Mississippi	85.08	100.05	113.25	80.87	58.91	67.39
Montana	69.78	98.36	96.54	74.98	67.86	55.56
Nebraska	22.84	28.22	31.11	26.56	25.36	20.37
New Mexico	68.18	90.40	101.49	78.67	66.16	69.07
East	78.28	107.64	110.98	83.41	68.58	69.05
West	56.42	68.03	77.60	68.85	60.78	69.10
North Dakota	95.33	118.78	125.41	84.49	69.81	65.16
Oklahoma	68.44	90.56	133.47	90.87	63.17	67.98
Texas	70.41	88.99	96.04	71.61	66.96	67.33
RRC District 1	54.93	71.41	64.65	48.59	46.33	44.39
RRC District 2	70.73	90.55	117.40	75.97	74.07	86.47
RRC District 3	80.99	107.06	113.48	80.98	82.34	79.59
RRC District 4	87.67	122.28	139.11	103.64	95.87	94.08
RRC District 5	100.15	124.53	120.48	103.58	88.80	83.40
RRC District 6	84.74	102.79	114.11	86.33	77.57	75.81
RRC District 7B	34.12	41.52	40.48	33.99	31.87	31.61
RRC District 7C	45.87	61.03	61.27	48.16	45.68	50.36
RRC District 8	67.64	91.25	102.40	78.77	65.40	64.46
RRC District 8A	45.48	64.38	61.06	50.58	46.73	45.51
RRC District 9	35.59	44.24	43.40	34.35	35.57	35.32
RRC District 10	68.16	85.43	101.66	72.21	64.73	60.31
Offshore	335.47	413.86	501.21	447.91	407.51	397.34
Utah	157.49	183.88	201.51	211.64	133.21	140.29
Wyoming	104.13	128.27	154.71	107.55	84.54	76.93
Appalachia *	33.45	38.10	39.91	35.86	35.19	34.75
Gulf of Mexico-North	421.58	621.78	415.23	587.16	652.65	653.34
Offshore Fed. Waters	528.79	664.51	565.44	807.23	803.08	811.45
Total U.S.	77.03	94.30	108.73	83.35	71.89	75.35

* Appalachia includes New York, Ohio, Pennsylvania, and West Virginia

Data from Oil & Gas Journal Energy Database
Source: Joint Association Survey

Indexed Cost of Drilling and Equipping a Well
1984 = 100

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
Payments to Drilling Contractors	22.5	23.5	24.0	26.3	28.5	29.8	30.9	34.8	37.9	49.3	56.5	64.5	77.4
Road and Site Preparation	27.4	28.1	30.2	31.5	33.3	35.2	37.8	40.4	42.9	46.0	51.0	54.9	59.2
Transportation	33.3	34.1	36.5	42.4	42.8	44.7	47.5	48.8	50.2	55.8	60.7	64.4	69.0
Fuel	11.5	12.0	12.8	12.2	12.3	13.3	13.7	13.9	15.8	27.7	33.7	38.4	44.6
Drilling Mud and Additives	28.7	28.9	30.6	31.9	33.1	36.1	39.0	39.1	43.8	51.9	66.3	74.5	78.5
Site Log and Monitoring Systems	26.4	27.7	27.9	28.8	31.7	32.2	32.6	32.6	32.6	37.1	43.7	47.0	50.6
Other Physical Tests	26.1	27.2	28.4	29.8	32.0	34.0	36.7	36.7	38.2	43.3	52.1	58.6	64.3
Logs and Wireline Evaluation	19.6	20.4	22.2	23.6	25.1	27.2	29.6	29.6	30.6	34.1	40.3	47.1	52.0
Directional Drilling Services	31.4	31.4	31.4	31.4	31.9	33.4	36.3	37.1	38.5	43.9	46.8	51.1	55.4
Perforate	25.5	25.6	27.7	28.0	29.6	32.0	33.6	33.6	33.6	37.5	44.3	49.1	53.6
Formation Treating	36.7	39.6	41.1	42.6	44.6	45.8	48.8	49.0	50.5	54.0	68.4	74.1	77.8
Cement and Cementing Services	29.3	30.9	32.6	34.7	36.2	38.6	43.1	43.8	45.9	49.8	62.1	66.6	68.3
Casing and Tubing	20.5	20.5	22.6	24.6	24.7	26.0	30.9	35.0	35.0	47.5	52.8	57.1	63.0
Casing Hardware	20.5	20.5	22.6	24.6	24.7	26.0	30.9	35.0	35.0	47.5	52.8	57.1	63.0
Special Tool Rental	32.1	32.4	33.2	34.3	35.7	39.1	40.1	40.1	40.7	45.3	52.1	57.6	63.1
Drill Bits and Reamers	22.3	22.5	23.4	25.7	27.8	29.9	30.3	32.1	32.8	37.4	46.5	50.2	55.4
Wellhead Equipment	17.2	17.9	18.5	19.9	20.9	21.9	23.0	23.3	24.7	28.8	34.8	40.8	47.7
Other Equipment and Supplies	22.4	22.8	23.5	25.0	26.5	27.8	28.8	30.0	31.4	37.2	46.2	51.2	55.6
Plugging	24.9	26.3	27.9	29.8	32.1	35.3	39.7	42.5	44.3	47.7	54.8	58.1	61.0
Supervision and Overhead	25.7	26.9	28.5	30.1	32.1	33.5	35.2	37.2	39.7	45.2	50.1	53.9	58.4
All Other Expenditures	29.9	30.5	31.0	31.7	32.8	34.1	35.3	36.6	39.1	47.7	53.2	56.5	60.5
Composite Cost per Foot	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Composite Cost per Well	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Indexed Cost of Drilling and Equipping a Well
1984 = 100

	1978	1979	1980	1981	1982	1983	1984	1985	1986
Payments to Drilling Contractors	86.1	111.5	128.4	157.0	163.5	114.3	100.0	101.0	85.9
Road and Site Preparation	64.8	71.8	80.4	86.5	91.2	96.7	100.0	102.0	106.5
Transportation	72.1	79.7	90.4	99.0	99.9	100.0	100.0	100.0	105.4
Fuel	46.0	62.9	93.9	120.9	111.4	101.8	100.0	95.3	58.9
Drilling Mud and Additives	93.1	102.8	120.3	136.6	141.0	107.5	100.0	101.2	100.6
Site Log and Monitoring Systems	57.4	67.3	80.6	97.4	98.3	100.0	100.0	100.0	100.0
Other Physical Tests	70.8	81.1	91.4	94.9	100.1	100.0	100.0	100.0	100.0
Logs and Wireline Evaluation	66.4	75.1	82.8	96.1	96.4	95.6	100.0	89.9	67.4
Directional Drilling Services	62.0	71.0	81.2	85.3	101.6	101.6	100.0	98.8	98.8
Perforate	58.1	65.0	78.3	91.5	100.1	100.0	100.0	100.0	100.0
Formation Treating	83.3	90.4	109.2	128.0	126.1	105.9	100.0	94.1	89.3
Cement and Cementing Services	76.2	82.2	95.1	111.9	118.8	107.4	100.0	94.5	86.6
Casing and Tubing	69.8	78.9	84.8	109.6	121.5	105.2	100.0	98.8	92.1
Casing Hardware	69.8	79.9	84.8	109.6	121.5	105.2	100.0	98.8	92.1
Special Tool Rental	69.4	75.9	83.2	93.3	100.5	103.3	100.0	100.0	100.0
Drill Bits and Reamers	62.0	68.2	77.8	89.0	98.3	99.9	100.0	98.6	98.8
Wellhead Equipment	53.3	61.7	75.1	90.8	102.1	97.1	100.0	103.8	103.8
Other Equipment and Supplies	61.6	68.2	79.0	94.1	103.0	100.9	100.0	100.8	97.6
Plugging	67.0	72.1	79.8	90.0	98.3	98.5	100.0	98.1	97.4
Supervision and Overhead	65.7	72.4	80.3	89.1	96.2	100.3	100.0	103.3	108.1
All Other Expenditures	65.0	73.3	85.2	94.3	96.8	97.9	100.0	100.4	96.8
Composite Cost per Foot	78.2	91.9	103.0	120.3	131.7	108.8	100.0	97.9	97.3
Composite Cost per Well	82.7	96.4	106.3	124.8	135.1	106.7	100.0	99.7	100.9

Data from Oil & Gas Journal Energy Database
Source: Independent Petroleum Association of America

International Active Drilling Rigs

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
North America											
Canada	179	218	272	339	401	264	199	201	259	311	178
U.S.	1,656	2,001	2,255	2,176	2,910	3,969	3,117	2,229	2,429	1,976	970
Total	1,835	2,219	2,527	2,515	3,311	4,233	3,316	2,430	2,688	2,287	1,148
Latin America											
Argentina	65	68	72	63	76	70	67	73	82	81	47
Barbados	0	0	0	0	0	1	1	1	1	1	1
Bolivia	8	6	6	6	4	11	11	8	6	5	4
Brazil	44	45	52	60	72	81	94	83	70	76	77
Chile	5	5	5	6	7	7	7	6	6	6	6
Colombia	7	11	11	15	14	22	23	18	16	21	17
Costa Rica	0	0	0	0	0	0	0	1	1	0	0
Ecuador	1	1	1	3	3	4	6	5	4	2	3
Guatemala	3	3	1	1	4	6	5	2	1	0	0
Mexico	138	148	167	205	215	218	202	187	196	196	163
Paraguay	0	1	1	0	0	0	1	0	0	0	0
Peru	15	13	16	20	21	24	23	16	17	12	13
Trinidad	17	15	17	14	13	14	13	10	9	10	11
Uruguay	0	0	0	0	0	0	0	0	0	0	0
Venezuela	16	20	33	47	52	63	69	41	30	33	29
Total	319	336	382	440	481	521	522	451	439	443	371
Europe											
Austria	9	10	9	10	8	9	9	9	7	7	6
Belgium	0	0	0	0	1	0	0	0	0	0	0
Denmark	3	0	0	0	3	2	2	5	3	4	3
France	13	7	8	11	13	21	22	17	20	22	15
Germany	22	21	22	21	22	26	31	25	19	20	19
Greece	0	0	2	2	3	6	5	3	4	1	0
Holland	18	18	14	17	17	17	21	17	18	24	15
Ireland	1	2	3	2	1	0	0	1	2	2	1
Italy	11	12	18	21	19	32	38	26	26	40	33
Norway	9	5	5	7	11	12	13	10	10	13	12
Portugal	1	0	0	0	0	1	1	1	0	0	0
Spain	7	6	6	5	10	11	12	8	9	10	7
Switzerland	0	0	0	0	1	1	1	0	0	0	0
United Kingdom	36	36	34	34	48	58	58	42	60	63	43
Yugoslavia	13	24	23	22	22	22	24	21	25	27	30
Total	143	141	144	152	179	218	237	185	203	233	184
Far East											
Bangladesh	4	2	3	2	3	5	5	2	4	5	5
Brunei	5	7	8	8	8	7	10	10	9	7	5
Burma	18	17	18	22	26	30	32	36	33	33	33
China-offshore	0	0	0	8	12	9	10	10	9	14	7
India	41	43	40	40	43	44	50	56	57	62	70
Indonesia	51	46	62	66	77	86	92	88	82	80	62
Japan	14	14	13	15	16	16	22	20	18	16	15
Korea South	0	1	1	0	0	0	0	0	0	0	0
Malaysia	4	8	11	13	12	12	13	10	9	8	8
North Korea	0	0	0	1	1	0	0	0	0	0	0
Pakistan	8	5	8	13	14	15	17	17	17	18	17
Philippines	6	6	6	15	12	13	14	8	3	2	1
Taiwan	10	11	9	10	12	11	4	5	6	7	7
Thailand	4	1	2	2	5	7	8	13	11	9	4
Viet Nam	0	0	0	2	1	0	0	0	0	0	0
Total	165	161	181	217	242	255	277	275	258	261	234

International Active Drilling Rigs

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Africa											
Algeria	83	108	101	109	111	81	81	54	27	35	41
Angola	0	1	2	6	5	5	11	12	7	11	7
Benin	0	0	0	0	0	0	0	0	1	1	0
Cameroon	2	2	2	4	6	7	7	5	4	2	1
Chad	0	1	1	1	1	1	1	0	0	1	1
Congo	0	2	1	1	6	7	6	4	3	3	2
Gabon	3	6	4	6	8	13	12	7	6	7	3
Ghana	0	1	1	0	0	0	0	0	0	0	0
Ivory Coast	1	1	2	3	3	5	5	2	2	1	0
Kole	0	0	1	0	0	0	0	0	0	0	0
Liberia	0	0	0	0	0	0	0	0	0	1	0
Libya	19	23	28	33	[illegible]	33	31	24	26	30	20
Madagascar	0	0	0	0	0	0	0	0	0	1	1
Morocco	3	4	4	3	7	5	5	6	4	3	3
Niger	2	3	4	5	5	5	3	0	0	0	0
Nigeria	15	16	16	18	23	23	27	17	11	10	10
Senegal	0	0	0	0	0	0	0	0	0	0	0
Sierra Leone	0	0	0	0	0	0	0	0	0	0	0
Somalia	0	0	0	0	0	0	0	0	0	2	0
South Africa	1	2	2	2	2	2	2	2	2	3	3
Sudan	0	0	1	2	2	3	2	4	2	1	1
Tanzania	0	0	0	0	0	0	0	0	1	0	0
Tunisia	9	4	6	7	8	11	11	7	6	4	3
Zaire	1	1	0	1	1	2	2	2	2	2	1
Total	139	175	176	201	219	213	206	146	104	118	97
Middle East											
Abu Dhabi	14	15	10	20	23	31	41	35	29	21	15
Bahrain	2	0	2	1	1	1	1	1	0	1	1
Dubai	6	1	2	1	3	2	3	7	7	5	3
Egypt	22	20	16	21	26	27	36	35	36	37	33
Iran	56	56	52	8	9	0	3	13	20	20	18
Iraq	26	27	29	32	29	14	11	23	19	28	21
Jordan	0	0	0	0	0	0	0	0	3	2	2
Kuwait	1	1	3	2	3	3	4	5	5	6	6
North Yemen	0	0	5	0	0	0	0	0	0	1	4
Oman	8	8	6	7	8	10	12	11	12	13	13
Qatar	5	6	6	6	8	7	5	3	2	3	1
Ras al Khaymah	1	2	1	0	1	1	2	1	0	0	0
Saudi Arabia	16	21	22	22	25	29	29	26	16	11	6
Sharjah	1	2	1	0	1	2	3	1	0	0	0
South Yemen	0	0	0	0	0	0	0	0	0	2	1
Syria	18	18	17	15	15	16	15	15	23	26	27
Turkey	13	16	17	9	24	26	34	26	24	25	27
Umm al Qawain	2	1	1	0	0	1	1	1	0	0	0
Total	191	195	191	144	177	170	200	203	196	201	178
South Pacific											
Australia	6	7	10	11	15	23	33	25	34	31	15
New Zealand	2	1	2	2	2	3	1	2	2	4	4
Papua, New Guinea	0	0	0	0	1	0	0	1	1	2	1
Total	8	8	12	13	18	26	34	28	37	37	20
Total Non-Communist	2,800	3,235	3,613	3,682	4,627	5,636	4,792	3,718	3,925	3,580	2,232

Data from Oil & Gas Journal Energy Database
Source: Baker Hughes Inc.

Total Non-Communist Active Drilling Rig Count
Outside U.S. and Canada
Land, Offshore, Total

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1981													
Land	1,016	1,039	1,063	1,041	1,036	1,024	1,043	1,045	1,063	1,064	1,074	1,088	1,049.7
Offshore	334	347	350	349	351	351	336	348	362	360	358	362	350.7
Total	1,350	1,386	1,413	1,390	1,387	1,375	1,379	1,393	1,425	1,424	1,432	1,450	1,400.3
1982													
Land	1,093	1,089	1,076	1,081	1,098	1,076	1,080	1,076	1,058	1,081	1,080	1,060	1,079.0
Offshore	379	385	403	391	399	410	405	395	404	401	408	399	398.3
Total	1,472	1,474	1,479	1,472	1,497	1,486	1,485	1,471	1,462	1,482	1,488	1,459	1,477.3
1983													
Land	1,026	1,019	974	940	941	939	942	925	910	887	860	852	934.6
Offshore	399	371	358	349	342	358	340	341	338	335	347	351	353.2
Total	1,425	1,390	1,332	1,289	1,283	1,297	1,281	1,266	1,248	1,222	1,207	1,203	1,287.8
1984													
Land	855	890	877	865	885	877	871	904	917	918	918	928	891.9
Offshore	338	337	336	349	364	342	353	347	346	348	348	357	346.3
Total	1,193	1,227	1,213	1,214	1,219	1,219	1,224	1,251	1,263	1,266	1,266	1,285	1,236.7
1985													
Land	926	924	916	914	927	911	946	936	942	950	950	951	936.1
Offshore	357	346	359	357	367	368	356	353	351	344	353	337	353.2
Total	1,283	1,270	1,275	1,271	1,294	1,279	1,302	1,289	1,293	1,294	1,303	1,288	1,289.3
1986													
Land	927	930	894	879	847	813	748	735	738	735	700	690	801.3
Offshore	333	307	313	301	274	272	271	259	234	248	252	250	277.8
Total	1,260	1,237	1,207	1,180	1,121	1,085	1,019	994	972	983	952	940	1,079.2

Data from Oil & Gas Journal Energy Database
Source: Baker Hughes Inc.

Active Rigs in Canada

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1970	184.6	195.0	186.4	86.1	71.1	100.2	116.8	114.2	122.6	134.1	130.2	169.1	134.2
1971	188.3	180.3	181.2	61.6	61.4	112.5	90.5	98.6	109.5	109.3	119.8	167.0	123.3
1972	211.0	214.5	221.2	100.2	82.4	127.5	135.2	132.0	136.0	149.8	166.5	201.8	156.5
1973	232.2	268.8	262.8	108.0	100.0	151.3	163.6	169.6	175.3	172.8	160.3	180.8	178.8
1974	213.2	242.8	258.7	117.4	60.5	113.0	145.8	139.7	127.6	137.5	142.2	153.4	154.3
1975	162.2	181.0	191.8	71.5	45.0	111.0	131.8	131.7	118.4	145.7	153.0	170.0	134.4
1976	212.5	229.8	224.6	68.5	103.2	152.0	156.5	190.6	186.2	195.0	194.0	223.0	178.0
1977	245.6	277.5	260.5	129.0	128.8	183.5	210.0	236.8	210.2	221.8	252.0	259.5	217.9
1978	245.8	286.0	290.8	164.0	151.0	244.5	285.8	311.0	295.5	315.4	338.0	333.3	271.8
1979	304.0	366.2	341.5	219.8	199.2	319.3	352.0	376.2	395.5	391.2	391.5	408.0	338.7
1980	368.0	430.0	421.0	331.0	357.8	398.8	412.8	455.6	422.4	405.1	410.8	399.6	401.1
1981	384.0	435.5	386.8	162.3	167.3	227.2	232.0	230.4	223.3	223.3	228.8	260.6	263.5
1982	248.0	338.8	303.8	113.0	76.6	130.0	129.8	146.0	150.3	164.3	251.2	346.5	199.9
1983	240.6	233.3	226.1	77.8	75.6	174.0	181.0	245.2	216.0	203.4	239.6	296.1	200.8
1984	279.0	328.3	398.5	133.6	151.0	228.0	258.0	270.0	238.0	247.0	289.0	347.0	259.0
1985	330.0	393.0	395.0	148.0	166.0	304.0	317.0	339.0	297.0	303.0	347.0	392.0	310.9
1986	437.0	454.0	347.0	66.0	39.0	64.0	70.0	102.0	102.0	107.0	113.0	237.0	178.2

Data from Oil & Gas Journal Energy Database
Source Baker Hughes Inc.

Active Seismic Crews
By Area, Average

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Africa:										
Land	73.0	64.0	52.8	63.8	81.8	69.5	60.3	53.3	54.5	44.3
Marine	3.3	9.5	5.0	6.5	6.8	5.8	10.3	6.3	5.8	4.3
Total	76.3	73.5	57.8	70.3	88.5	75.3	70.5	59.5	60.3	48.5
Canada:										
Land	54.2	82.0	64.3	75.0	65.8	62.8	71.8	82.3	86.0	53.0
Marine	1.5	1.5	1.5	2.8	4.5	4.5	6.5	5.3	3.8	0.5
Total	55.8	93.5	65.8	77.8	70.3	67.3	78.3	87.5	89.8	53.5
Central & South America:										
Land	47.8	47.0	51.3	66.3	91.3	98.0	81.3	79.0	63.5	48.3
Marine	7.8	6.5	9.3	8.5	7.8	7.3	5.0	9.0	8.3	4.5
Total	55.5	53.5	60.5	74.8	99.0	105.3	86.3	88.0	71.8	52.8
Far East:										
Land	34.3	49.3	48.0	59.0	78.5	102.5	94.5	84.5	92.3	73.8
Marine	9.0	8.8	13.5	15.3	12.8	15.5	14.5	12.3	8.5	8.8
Total	43.3	58.0	61.5	74.3	91.3	118.0	109.0	96.8	100.8	82.5
Middle East:										
Land	31.5	38.5	32.8	40.3	45.3	42.8	32.5	36.0	40.3	33.0
Marine	3.3	1.3	1.5	3.5	3.8	2.8	1.0	1.8	2.3	3.8
Total	34.8	39.8	34.3	43.8	49.0	45.5	33.5	37.8	42.5	36.8
Mexico:										
Land	20.0	23.8	25.5	29.0	29.0	29.0	27.5	31.5	32.3	28.8
Marine	1.0	3.3	3.0	3.3	2.8	1.0	0.8	0.0	0.0	0.0
Total	21.0	27.0	28.5	32.3	31.8	30.0	28.3	31.5	32.3	28.8
U.S.:										
Land	282.0	327.8	381.5	501.8	643.8	511.8	429.8	441.3	318.5	161.0
Marine	27.0	24.3	31.3	38.0	44.5	57.3	49.0	47.0	45.0	22.0
Total	309.0	352.0	412.8	539.8	688.3	569.0	478.8	488.3	363.5	183.0
Western Europe:										
Land	40.0	41.8	49.0	60.0	65.8	68.8	71.0	80.8	78.3	64.8
Marine	13.8	10.5	13.0	22.5	29.3	30.8	26.0	34.5	35.0	26.0
Total	53.8	52.3	62.0	82.5	95.0	99.5	97.0	115.3	113.3	90.8
Total Non-Communist:										
Land	582.8	674.0	705.0	895.0	1,101.0	985.0	868.5	888.5	765.5	506.8
Marine	66.5	65.5	78.0	100.3	112.0	124.8	113.0	116.0	108.5	69.8
Total	649.3	739.5	783.0	995.3	1,213.0	1,109.8	981.5	1,004.5	874.0	576.5

Data from Oil & Gas Journal Energy Database
Source: Society of Exploration Geophysicists

Active Seismic Crew Count
In Canada

		January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
Total	1980	99	101	114	18	44	56	61	59	64	61	69	77	68.6
Land		98	101	114	18	42	54	58	53	58	57	66	74	66.1
Marine		1	0	0	0	2	2	3	6	6	4	3	3	2.5
Total	1981	101	108	105	25	34	47	52	48	50	56	61	79	63.8
Land		98	105	103	23	31	42	45	41	44	51	56	74	59.4
Marine		3	3	2	2	3	5	7	7	6	5	5	5	4.4
Total	1982	99	104	106	22	24	33	36	47	46	57	60	84	59.8
Land		95	101	104	18	21	28	30	40	39	51	55	80	55.3
Marine		4	3	2	4	3	5	6	7	7	6	5	4	4.5
Total	1983	93	98	104	32	50	53	56	61	67	74	73	89	70.8
Land		87	93	95	28	43	46	47	50	57	69	70	85	64.5
Marine		6	5	9	4	7	7	9	11	10	5	3	4	6.3
Total	1984	123	127	129	42	49	55	64	67	56	69	84	110	81.3
Land		121	124	125	39	46	53	57	58	46	61	78	105	76.3
Marine		2	3	4	3	3	2	7	9	10	8	6	5	5.0
Total	1985	123	153	156	27	70	71	88	69	54	61	69	78	84.9
Land		123	152	151	21	64	66	82	61	49	59	67	76	80.9
Marine		0	1	5	6	6	5	6	8	5	2	2	2	4.0
Total	1986	123	123	100	11	18	22	12	20	17	32	42	80	50.0
Land		121	121	98	11	18	21	11	18	16	30	42	80	49.3
Marine		2	2	2	0	0	1	1	2	1	2	0	0	0.8

Data from Oil & Gas Journal Energy Database
Source: Society of Exploration Geophysicists

Total Non-Communist Well Completions
Total Wells Drilled

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
U.S.	29,942	27,682	29,420	28,662	33,415	40,804	42,614	47,308	51,671	53,362
Canada	3,108	3,179	3,548	4,621	3,227	4,242	6,221	6,197	7,170	7,489
Latin America	1,829	1,845	1,703	1,638	1,727	1,557	1,788	1,925	2,329	3,156
Western Europe	362	418	453	406	489	576	555	576	659	675
Middle East	212	793	428	609	595	598	604	644	585	621
Africa	709	663	645	597	628	605	435	596	584	841
Far East	246	579	535	608	810	745	742	704	976	2,965
Total Non-Communist	36,038	34,645	36,735	37,225	42,926	49,125	52,959	57,950	63,974	69,109

	1980	1981	1982	1983	1984	1985
U.S.	71,562	81,600	83,092	75,593	84,983	70,708
Canada	8,813	6,937	6,464	7,005	8,765	12,564
Latin America	5,758	4,139	3,100	NA	2,335	3,434
Western Europe	1,071	1,097	1,060	1,007	916	1,279
Middle East	817	171	571	NA	270	NA
Africa	870	948	711	607	681	599
Far East	4,058	5,266	915	2,180	1,975	6,051
Total Non-Communist	90,969	109,744	96,973	85,191	99,934	95,445

Data from Oil & Gas Journal Energy Database
Source: American Association of Petroleum Geologists, American Petroleum Institute

Total Non-Communist Well Completions
Exploratory Wells Drilled

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
U.S.	7,436	7,131	7,551	7,771	8,969	9,459	9,317	10,140	11,030	10,735
Canada	1,597	1,534	1,633	2,219	1,735	1,649	2,481	2,801	3,144	2,925
Latin America	444	419	399	384	405	321	362	406	329	NA
Western Europe	159	190	210	217	243	296	272	252	297	325
Middle East	73	48	81	65	70	100	120	99	122	NA
Africa	263	257	223	178	191	200	162	204	201	204
Far East	216	261	312	342	338	313	249	247	395	377
Total Non-Communist	10,157	9,849	10,409	11,178	11,951	12,338	12,963	14,149	15,518	14,566

	1980	1981	1982	1983	1984	1985
U.S.	12,870	17,491	15,842	13,865	15,138	12,157
Canada	[illegible]	2,774	2,346	2,011	2,862	3,404
Latin America	[illegible]	970	879	504	543	614
Western Europe	NA	507	599	528	396	616
Middle East	88	NA	167	111	110	NA
Africa	267	284	297	204	208	284
Far East	409	425	464	547	684	545
Total Non-Communist	17,834	22,451	20,594	17,800	19,942	17,620

Data from Oil & Gas Journal Energy Database
Source: American Association of Petroleum Geologists; American Petroleum Institute

Notes

Production

Domestic and worldwide production levels have always been of interest to oil industry analysts. But over the past ten years worldwide production levels have been of intense interest to followers of industry activity. Geographic and political groupings such as the Middle East and OPEC are watched closely.

Recent trends in production were altered abruptly in 1986. OPEC's experiment with regaining market share drove down world crude oil prices and markedly changed the worldwide production outlook. Following are some of the key movements in worldwide production over the period since 1970.

The emergence of OPEC as a somewhat cohesive group controlling the vast majority of worldwide export crude made the level of OPEC crude oil production a key indicator of worldwide industry activity. And correspondingly, the level of non-OPEC production became a significant indicator of current industry trends.

OPEC production peaked in the late 1970's at over 30 million b/d. And OPEC's share of both the total world and non-communist production peaked at the same time; at over 50% of total world production and over 65% of non-communist world oil production.

The sharp increase in prices resulted in energy and petroleum product conservation at unexpected levels. The resulting decrease in demand also reduced the level of crude oil production. Because of their aggressive pricing policies this reduction in production fell largely on OPEC. OPEC output dropped sharply to 16 million b/d in 1985. OPEC's market share fell to 30% of the total world and 41.5% of non-communist world output.

The higher prices stimulated oil exploration and development in non-OPEC nations. Over a similar time period, non-OPEC, non-communist production jumped from around 14 million b/d to over 22 million b/d. Non-OPEC output actually surpassed OPEC production for the first time in 1982.

U.S. production has not been as volatile as worldwide or OPEC production but it has also exhibited some interesting shifts in trend over recent years. The natural decline in lower-48 production that was expected to proceed without interruption was largely reversed. The massive drilling boom of the 1979-1982 period led to a record number of new well completions and a corresponding increase in production. The higher oil prices that OPEC had engineered stimulated U.S. production as well as production in other non-OPEC areas.

In 1986 OPEC production and market share rose again. Production jumped to 18.1 million b/d -- 32.3% of the total world and 44.6% of non-communist output. But the increase came at the expense of much lower oil prices. Non-OPEC production fell for the first time since 1975. Lower prices forced many U.S. stripper wells to be shut in and stifled drilling. When these factors combined with the natural decline rate of older reservoirs, U.S. production fell by nearly 300,000 b/d during 1986.

This chapter of the Energy Statistics Sourcebook contains all of the key series for analysis of domestic and worldwide production. Detailed data are provided for domestic production by state. Data are provided for crude oil, NGL and total liquids production in the U.S. For worldwide analysis, detailed data are provided for production by country, and are set up to reflect geographic and political regions of interest such as OPEC, non-communist, etc. Estimates are also provided of crude oil productive capacity. Productive capacity has had a great impact on the worldwide oil industry over the past ten years.

Production

Crude Oil Production, Total U.S., Annual, 80
Crude Oil Production, Total U.S., Monthly, 81
Natural Gas Liquids Production, Total U.S., Monthly, 82
Total Liquids Production, Total U.S., Monthly, 83
Crude Oil Production, By State, Annual, 85
Crude Oil Production from Stripper Wells, By State, Annual, 90
Percent of Crude Oil Production from Stripper Wells, By State, Annual, 91
Worldwide Crude Oil Production, By Country, Annual, 94
Crude Oil Production, OPEC, Non-Communist & World, Monthly, 98
Worldwide Producing Oil Wells, By Country, Annual, 100
Installed Productive Capacity, OPEC & Non-Communist, Annual, 103
OPEC Installed Productive Capacity, By Country, Annual, 104

U.S. Crude Oil Production

Year	000 bbl.	000 b/d	Year	000 bbl.	000 b/d	Year	000 bbl.	000 b/d
1859	2		1902	88,767	243.2	1945	1,713,655	4,694.9
1860	500	1.4	1903	100,461	275.2	1946	1,733,939	4,750.5
1861	2,114	5.8	1904	117,081	319.9	1947	1,856,987	5,087.6
1862	3,057	8.4	1905	134,717	369.1	1948	2,020,185	5,519.6
1863	2,611	7.2	1906	126,494	346.6	1949	1,841,940	5,046.4
1864	2,116	5.8	1907	166,095	455.1	1950	1,973,574	5,407.1
1865	2,498	6.8	1908	178,527	487.8	1951	2,247,711	6,158.1
1866	3,598	9.9	1909	183,171	501.8	1952	2,289,836	6,256.4
1867	3,347	9.2	1910	209,557	574.1	1953	2,357,082	6,457.8
1868	3,646	10.0	1911	220,449	604.0	1954	2,314,988	6,342.4
1869	4,215	11.5	1912	222,935	609.1	1955	2,484,428	6,806.7
1870	5,261	14.4	1913	248,446	680.7	1956	2,617,283	7,151.0
1871	5,205	14.3	1914	265,763	728.1	1957	2,616,901	7,169.6
1872	6,293	17.2	1915	281,104	770.1	1958	2,448,987	6,709.6
1873	9,894	27.1	1916	300,767	821.8	1959	2,574,590	7,053.7
1874	10,927	29.9	1917	335,316	918.7	1960	2,574,933	7,035.3
1875	*11,963	32.8	1918	355,928	975.1	1961	2,621,758	7,182.9
1876	9,133	25.0	1919	378,367	1,036.6	1962	2,676,189	7,332.0
1877	13,350	36.6	1920	442,929	1,210.2	1963	2,752,723	7,541.7
1878	15,397	42.2	1921	472,183	1,293.7	1964	2,786,822	7,614.3
1879	19,914	54.6	1922	557,531	1,527.5	1965	2,848,514	7,804.1
1880	26,286	71.8	1923	732,407	2,006.6	1966	3,027,763	8,295.2
1881	27,661	75.8	1924	713,940	1,950.7	1967	3,215,742	8,810.3
1882	+30,511	83.6	1925	763,743	2,092.4	1968	3,329,042	9,095.7
1883	23,450	64.2	1926	770,874	2,112.0	1969	3,371,751	9,237.7
1884	24,218	66.2	1927	901,129	2,468.8	1970	3,517,450	9,636.8
1885	21,859	59.9	1928	901,474	2,463.0	1971	3,453,914	9,462.8
1886	28,065	76.9	1929	1,007,323	2,759.8	1972	3,455,368	9,440.9
1887	28,283	77.5	1930	898,011	2,460.3	1973	3,360,903	9,208.0
1888	27,612	75.4	1931	851,081	2,331.7	1974	3,202,585	8,774.2
1889	35,164	96.3	1932	785,159	2,145.2	1975	3,056,779	8,374.7
1890	45,824	125.5	1933	905,656	2,481.2	1976	2,976,180	8,131.6
1891	54,293	148.7	1934	908,065	2,487.8	1977	3,009,265	8,244.6
1892	50,515	138.0	1935	996,596	2,730.4	1978	3,178,216	8,707.4
1893	48,431	132.7	1936	1,099,687	3,004.6	1979	3,121,310	8,551.5
1894	49,344	135.2	1937	1,279,160	3,504.5	1980	3,146,365	8,596.6
1895	52,892	144.9	1938	1,214,355	3,327.0	1981	3,128,624	8,571.6
1896	60,960	166.6	1939	1,264,962	3,465.6	1982	3,156,715	8,648.5
1897	60,476	165.7	1940	1,353,214	3,697.3	1983	3,170,999	8,687.7
1898	55,364	151.7	1941	1,402,228	3,841.7	1984	3,249,696	8,879.0
1899	57,071	156.4	1942	1,386,645	3,799.0	1985	3,274,553	8,971.4
1900	63,621	173.8	1943	1,505,613	4,125.0	1986	3,168,252	8,680.1
1901	69,389	190.1	1944	1,677,904	4,584.4			

* 1875 production includes cumulative California production, 1861-1875, and cumulative Ohio and West Virginia production 1860-1875

+ 1882 production includes cumulative Kentucky production 1860-1882.

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, American Petroleum Institute, Energy Information Administration

U.S. Crude Oil Production
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	9,655.0	9,728.7	9,768.0	9,768.9	9,644.5	9,603.9	9,456.6	9,410.6	9,135.2	9,162.3	9,139.0	9,099.6	**9,464.4**
1972	9,114.3	9,336.2	9,461.6	9,513.0	9,614.3	9,521.5	9,496.3	9,482.5	9,508.3	9,481.6	9,426.4	9,334.6	**9,440.9**
1973	9,175.9	9,395.2	9,271.9	9,291.9	9,262.4	9,213.9	9,217.1	9,168.5	9,065.3	9,223.9	9,161.0	9,063.2	**9,209.2**
1974	8,933.9	9,142.2	8,965.4	8,954.0	8,910.6	8,780.2	8,780.1	8,698.9	8,442.9	8,611.3	8,568.8	8,526.5	**8,776.2**
1975	3,455.0	8,591.1	8,493.5	8,456.6	8,378.8	8,420.8	8,335.7	8,248.8	8,279.6	8,324.4	8,277.9	8,253.5	**8,376.3**
1976	8,231.8	8,231.2	8,232.2	8,077.0	8,124.5	8,094.4	8,127.2	8,110.6	8,149.6	8,063.3	8,079.6	8,060.6	**8,131.8**
1977	7,854.1	8,138.9	8,089.6	8,144.9	8,074.7	8,101.9	8,104.6	8,306.8	8,479.7	8,573.4	8,579.3	8,487.0	**8,244.6**
1978	8,[illegible]9.7	8,376.6	8,720.1	8,817.5	8,825.3	8,832.5	8,756.2	8,758.1	8,800.3	8,820.0	8,741.1	8,661.5	**8,705.7**
1979	8,474.7	8,525.4	8,601.1	8,553.1	8,601.0	8,431.6	8,363.8	8,547.8	8,523.1	8,621.2	8,760.6	8,614.5	**8,551.5**
1980	8,675.5	8,704.5	8,698.4	8,684.7	8,635.0	8,554.0	8,547.2	8,414.2	8,619.2	8,531.9	8,495.1	8,605.7	**8,597.1**
1981	9,539.9	8,604.1	8,613.0	8,556.9	8,501.3	8,628.6	8,499.9	8,582.9	8,604.0	8,562.9	8,586.0	8,585.4	**8,572.1**
1982	3,509.5	8,702.2	8,667.3	8,591.3	8,683.4	8,646.1	8,658.0	8,633.6	8,700.9	8,701.5	8,697.3	8,597.9	**8,649.1**
1983	9,696.9	8,758.5	8,700.2	8,775.6	8,631.5	8,667.1	8,636.0	8,679.1	8,784.3	8,770.6	8,770.4	8,396.5	**8,688.9**
1984	8,867.8	8,874.4	8,671.9	8,856.1	8,955.4	8,852.3	8,884.9	8,809.4	8,993.3	8,905.6	8,978.6	8,896.7	**8,878.9**
1985	8,739.5	9,024.8	9,094.9	9,043.3	9,132.0	9,021.8	8,948.7	8,802.6	8,953.7	8,969.9	8,902.0	9,029.5	**8,971.9**
1986	9,137.0	9,173.4	9,013.3	8,863.9	8,837.5	8,623.3	8,659.6	8,373.5	8,328.1	8,418.8	8,412.5	8,352.5	**8,682.8**

U.S. Crude Oil Production
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	299,305	272,404	302,809	293,068	298,980	288,117	293,154	291,730	274,057	284,032	274,170	282,088	**3,453,914**
1972	282,543	270,749	293,311	285,389	298,043	285,646	294,385	293,958	285,249	293,929	282,793	289,373	**3,455,368**
1973	284,454	263,066	287,430	278,757	287,134	276,418	285,731	284,225	271,959	285,940	274,829	280,960	**3,360,903**
1974	276,950	255,982	277,927	268,619	276,228	263,407	272,184	269,665	253,288	266,949	257,064	264,322	**3,202,585**
1975	262,104	240,552	263,297	253,698	259,742	252,624	258,408	255,712	248,389	258,057	248,336	255,860	**3,056,779**
1976	255,185	238,705	255,198	242,310	251,860	242,833	251,942	251,429	244,489	249,962	242,388	249,879	**2,976,180**
1977	243,478	227,890	250,778	244,347	250,317	243,058	251,244	257,510	254,392	265,776	257,378	263,097	**3,009,265**
1978	259,150	234,544	270,324	264,526	273,583	264,974	271,442	271,502	264,010	273,420	262,233	268,508	**3,178,216**
1979	262,716	238,710	266,635	256,593	266,631	252,949	259,278	264,981	255,693	267,256	262,818	267,050	**3,121,310**
1980	268,940	252,431	269,650	260,541	267,684	256,619	264,964	260,841	258,577	264,489	254,852	266,777	**3,146,365**
1981	264,736	240,914	267,003	256,708	263,541	258,859	263,498	266,069	258,120	265,450	257,579	266,147	**3,128,624**
1982	263,793	243,661	268,687	257,738	269,186	259,383	268,398	267,643	261,028	269,745	260,918	266,535	**3,156,715**
1983	269,604	245,237	269,706	263,269	267,575	260,014	267,717	269,053	263,530	271,890	263,111	260,293	**3,170,999**
1984	274,902	257,357	268,829	265,682	277,616	265,570	275,432	273,091	269,798	276,075	269,357	275,797	**3,249,506**
1985	270,926	252,695	281,943	271,299	283,093	270,653	277,410	272,881	268,610	278,068	267,059	279,916	**3,274,553**
1986	283,248	256,855	279,413	265,917	273,964	258,700	268,448	259,580	249,843	260,984	252,374	258,926	**3,168,252**

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

U.S. Natural Gas Liquids Production
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	1,686.3	1,720.4	1,688.9	1,692.5	1,688.1	1,660.0	1,652.0	1,686.0	1,680.4	1,680.7	1,688.6	1,789.0	**1,692.7**
1972	1,704.5	1,746.5	1,768.2	1,769.1	1,736.8	1,734.3	1,731.2	1,738.6	1,751.1	1,768.5	1,757.0	1,720.6	**1,743.9**
1973	1,680.0	1,744.9	1,734.5	1,749.6	1,739.3	1,726.7	1,737.0	1,747.8	1,741.1	1,756.3	1,774.0	1,728.5	**1,738.3**
1974	1,699.1	1,728.3	1,741.4	1,695.7	1,689.6	1,683.8	1,656.6	1,675.5	1,638.1	1,686.1	1,693.9	1,669.7	**1,688.2**
1975	1,629.5	1,645.9	1,657.9	1,635.2	1,607.0	1,646.3	1,621.3	1,649.8	1,576.7	1,642.6	1,634.9	1,645.9	**1,632.8**
1976	1,585.1	1,640.4	1,615.2	1,616.0	1,587.7	1,605.5	1,591.6	1,596.2	1,602.4	1,600.7	1,620.6	1,589.2	**1,604.2**
1977	1,549.4	1,589.2	1,687.4	1,663.9	1,620.3	1,616.4	1,609.2	1,592.6	1,585.5	1,632.5	1,627.4	1,636.5	**1,617.5**
1978	1,556.5	1,562.1	1,590.4	1,618.5	1,530.2	1,583.4	1,558.2	1,556.4	1,546.1	1,540.3	1,601.9	1,566.5	**1,567.5**
1979	1,530.4	1,561.1	1,547.7	1,610.9	1,569.6	1,571.4	1,564.4	1,575.4	1,564.6	1,607.0	1,675.9	1,625.7	**1,583.7**
1980	1,648.3	1,655.9	1,567.8	1,630.1	1,615.3	1,561.4	1,523.5	1,519.4	1,515.5	1,515.7	1,570.5	1,559.6	**1,573.6**
1981	1,651.8	1,653.5	1,623.7	1,598.6	1,303.2	1,593.7	1,547.5	1,614.5	1,612.1	1,598.4	1,629.8	1,589.9	**1,584.7**
1982	1,577.6	1,562.7	1,571.6	1,541.5	1,518.1	1,510.5	1,512.6	1,524.4	1,518.2	1,530.2	1,608.6	1,628.5	**1,550.4**
1983	1,568.7	1,565.4	1,526.0	1,491.7	1,483.2	1,510.2	1,527.6	1,545.4	1,589.8	1,592.8	1,630.0	1,537.3	**1,547.4**
1984	1,568.0	1,631.7	1,595.2	1,615.3	1,610.5	1,609.3	1,630.0	1,633.2	1,656.0	1,645.5	1,674.5	1,646.1	**1,626.3**
1985	1,614.6	1,611.2	1,587.2	1,567.3	1,579.4	1,584.3	1,552.5	1,578.1	1,560.2	1,595.0	1,645.2	1,666.9	**1,595.2**
1986	1,705.8	1,691.5	1,599.9	1,518.3	1,538.2	1,499.6	1,503.1	1,440.6	1,464.1	1,472.7	1,565.5	1,566.0	**1,547.1**

U.S. Natural Gas Liquids Production
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	52,275	48,170	52,356	50,774	52,330	49,801	51,213	52,265	50,412	52,102	50,659	55,458	**617,815**
1972	52,840	50,649	54,814	53,073	53,842	52,028	53,668	53,896	52,533	54,825	52,710	53,338	**638,216**
1973	52,081	48,857	53,769	52,488	53,917	51,801	53,846	54,183	52,233	54,444	53,219	53,585	**634,423**
1974	52,672	48,392	53,983	50,872	52,379	50,514	51,354	51,942	49,144	52,268	50,817	51,761	**616,098**
1975	50,515	46,086	51,396	49,056	49,818	49,390	50,260	51,143	47,302	50,922	49,048	51,022	**595,958**
1976	49,137	47,573	50,072	48,481	49,218	48,166	49,340	49,482	48,071	49,621	48,618	49,266	**587,045**
1977	48,030	44,497	52,310	49,916	50,229	48,491	49,885	49,372	47,564	50,608	48,821	50,732	**590,455**
1978	48,252	43,739	49,302	48,555	47,436	47,503	48,303	48,248	46,383	47,748	48,056	48,561	**572,086**
1979	47,443	43,711	47,978	48,326	48,658	47,143	48,497	48,838	46,939	49,818	50,276	50,396	**578,023**
1980	51,098	48,022	48,602	48,904	50,074	46,841	47,229	47,102	45,464	46,987	47,115	48,349	**575,787**
1981	51,205	46,297	50,335	47,957	40,398	47,810	47,974	50,048	48,363	49,551	48,895	49,287	**578,120**
1982	48,907	43,756	48,719	46,244	47,062	45,316	46,892	47,257	45,546	47,437	48,257	50,483	**565,876**
1983	48,631	43,832	47,306	44,752	45,980	45,307	47,357	47,907	47,695	49,377	48,900	47,655	**564,699**
1984	48,607	47,318	49,452	48,460	49,925	48,279	50,530	50,628	49,679	51,009	50,236	51,029	**595,152**
1985	50,053	45,114	49,202	47,020	48,962	47,528	48,127	48,920	46,806	49,444	49,356	51,674	**582,206**
1986	52,879	47,362	49,598	45,548	47,684	44,988	46,597	44,659	43,922	45,653	46,965	48,546	**564,401**

Data from Oil & Gas Journal Energy Database
Source Bureau of Mines, Energy Information Administration

Total U.S. Liquids Production
Thousands of barrels per day

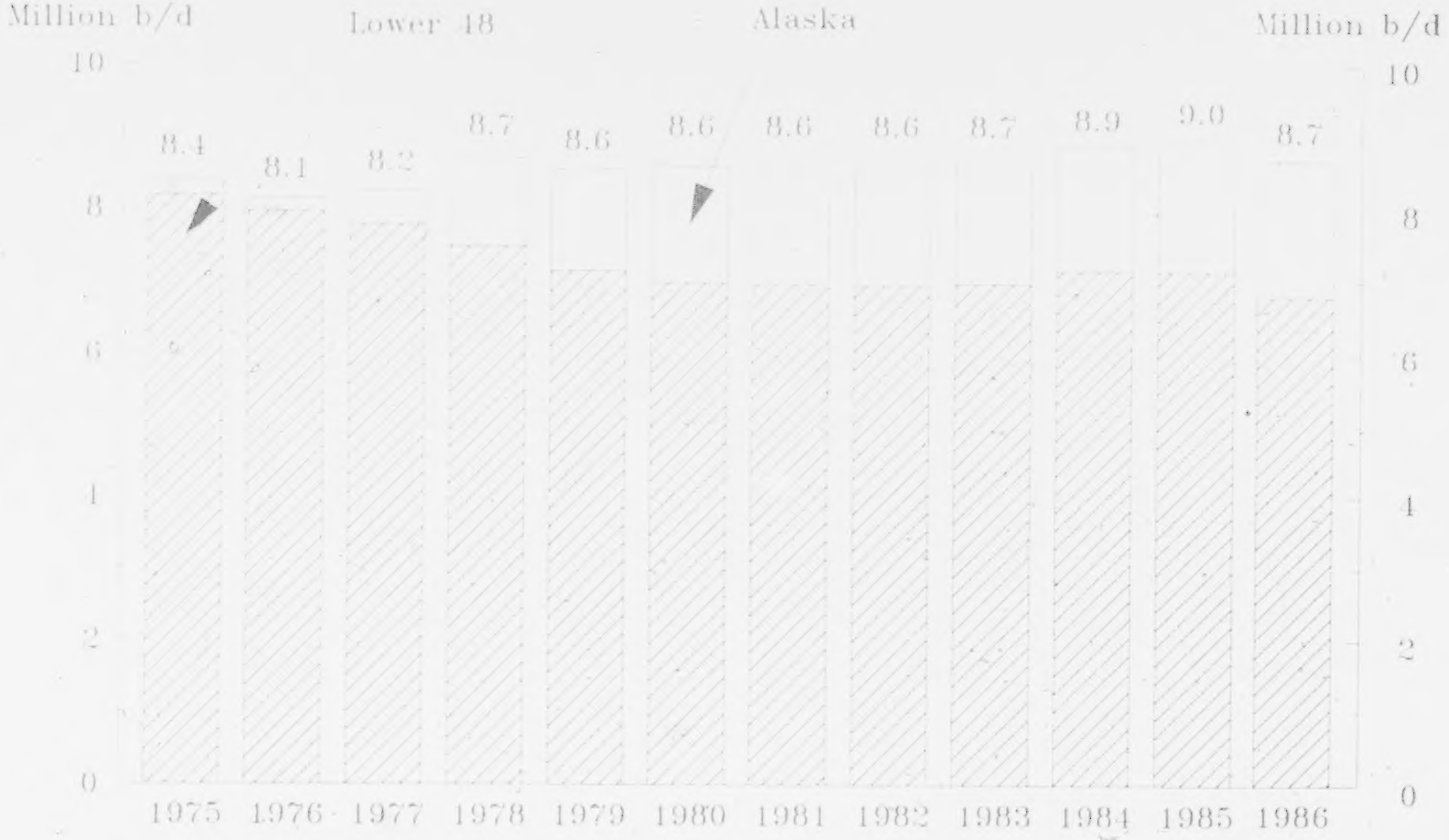
	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	11,341.3	11,449.1	11,456.9	11,461.4	11,332.6	11,263.9	11,108.6	11,096.6	10,815.6	10,843.0	10,827.6	10,888.6	**11,157.1**
1972	10,818.8	11,082.7	11,229.8	11,282.1	11,351.1	11,255.8	11,227.5	11,221.1	11,260.1	11,250.1	11,183.4	11,055.2	**11,184.8**
1973	10,856.0	11,140.1	11,006.4	11,041.5	11,001.6	10,940.6	10,954.1	10,916.4	10,806.4	10,980.1	10,934.9	10,791.8	**10,947.5**
1974	10,633.0	10,870.5	10,706.8	10,649.7	10,600.2	10,464.0	10,436.7	10,374.4	10,081.1	10,297.3	10,262.7	10,196.2	**10,464.4**
1975	10,084.5	10,237.1	10,151.4	10,091.8	9,985.8	10,067.1	9,957.0	9,898.5	9,856.4	9,967.1	9,912.8	9,899.4	**10,009.1**
1976	9,816.8	9,871.7	9,847.4	9,693.0	9,712.2	9,700.0	9,718.8	9,706.8	9,752.0	9,664.0	9,700.2	9,649.8	**9,736.1**
1977	9,403.5	9,728.1	9,777.0	9,808.8	9,695.0	9,718.3	9,713.8	9,899.4	10,065.2	10,205.9	10,206.6	10,123.5	**9,862.1**
1978	9,916.2	9,938.7	10,310.5	10,436.0	10,355.5	10,415.9	10,314.4	10,314.5	10,346.4	10,360.3	10,343.0	10,228.0	**10,273.3**
1979	10,005.1	10,086.5	10,148.8	10,164.0	10,170.6	10,003.1	9,928.2	10,123.2	10,087.7	10,228.2	10,436.5	10,240.2	**10,135.2**
1980	10,323.8	10,360.4	10,266.2	10,314.8	10,250.3	10,115.3	10,070.7	9,933.6	10,134.7	10,047.6	10,065.6	10,165.4	**10,170.7**
1981	10,231.2	10,293.7	10,271.9	10,194.7	10,160.1	10,287.3	10,098.1	10,242.9	10,281.0	10,225.2	10,269.2	10,219.7	**10,231.3**
1982	10,127.9	10,311.9	10,284.0	10,188.3	10,244.4	10,212.0	10,228.9	10,215.0	10,279.0	10,299.1	10,359.1	10,276.0	**10,252.1**
1983	10,331.4	10,387.8	10,278.8	10,321.9	10,190.1	10,261.0	10,228.3	10,283.7	10,446.9	10,433.7	10,460.8	9,983.4	**10,300.6**
1984	10,477.0	10,564.8	10,319.1	10,531.0	10,623.2	10,507.3	10,587.1	10,478.4	10,692.3	10,608.2	10,689.0	10,577.8	**10,554.6**
1985	10,412.5	10,692.0	10,748.0	10,673.2	10,770.2	10,663.5	10,550.2	10,484.8	10,584.5	10,637.4	10,640.2	10,777.3	**10,636.1**
1986	10,911.2	10,915.5	10,663.7	10,435.4	10,440.3	10,187.3	10,225.1	9,875.3	9,851.8	9,953.6	10,060.7	9,985.0	**10,292.1**

Total U.S. Liquids Production
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	351,580	320,574	355,165	343,842	351,310	337,918	344,367	343,995	324,469	336,134	324,829	337,546	**4,071,729**
1972	335,383	321,398	348,125	338,462	351,885	337,674	348,053	347,854	337,802	348,754	335,503	342,711	**4,093,604**
1973	336,535	311,923	341,199	331,245	341,051	328,219	339,577	338,408	324,192	340,384	328,048	334,545	**3,995,326**
1974	329,622	304,374	331,910	319,491	328,607	313,921	323,538	321,607	302,432	319,217	307,881	316,083	**3,818,683**
1975	312,619	286,638	314,693	302,754	309,560	302,014	308,668	306,855	295,691	308,979	297,384	306,882	**3,652,737**
1976	304,322	286,278	305,270	290,791	301,078	290,999	301,282	300,911	292,560	299,583	291,006	299,145	**3,563,225**
1977	291,508	272,387	303,088	294,263	300,546	291,549	301,129	306,882	301,956	316,384	306,199	313,829	**3,599,720**
1978	307,402	278,283	319,626	313,081	321,019	312,477	319,745	319,750	310,393	321,168	310,289	317,069	**3,750,302**
1979	310,159	282,421	314,613	304,919	315,289	300,092	307,775	313,819	302,632	317,074	313,094	317,446	**3,699,333**
1980	320,038	300,451	318,252	309,445	317,758	303,460	312,192	307,943	304,041	311,476	301,967	315,126	**3,722,152**
1981	317,158	288,224	318,429	305,840	314,963	308,619	313,042	317,530	308,430	316,982	308,077	316,812	**3,734,116**
1982	313,966	288,734	318,804	305,648	317,577	306,359	317,095	316,666	308,371	319,273	310,774	318,555	**3,741,822**
1983	320,272	290,859	318,643	309,656	315,893	307,829	317,076	318,794	313,408	323,445	313,823	309,484	**3,759,182**
1984	324,786	306,379	319,891	315,930	329,319	315,220	328,200	324,830	320,770	328,853	320,670	327,911	**3,862,759**
1985	322,737	299,375	333,187	320,197	333,876	319,905	327,056	325,030	317,534	329,758	319,206	334,097	**3,882,008**
1986	338,247	305,635	330,574	313,063	323,650	305,620	316,977	306,135	295,554	308,562	301,822	309,536	**3,755,375**

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

U.S. Crude Oil Production



Source: BOM, EIA

U.S. Crude Oil Production

By State*

Thousands of barrels

	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
Alabama	NA	NA	NA	NA	43	181	390	396	466	462
Arkansas	[illegible]	[illegible]	26,628	[illegible]	[illegible]	28,613	28,375	29,949	31,687	29,986
California	[illegible]	[illegible]	[illegible]	284,188	311,793	308,482	314,718	333,132	340,074	332,942
Colorado	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5,036	11,856	15,702	17,862	23,587
Florida	NA	NA	NA	1	12	30	[illegible]	299	290	441
Illinois	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	75,094	75,291	66,460	64,808	64,501
Indiana	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4,888	6,726	6,095	6,974	9,696
Kansas	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	96,415	97,218	106,132	110,908	101,868
Kentucky	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10,426	10,018	9,397	8,801	8,803
Louisiana	[illegible]	[illegible]	[illegible]	[illegible]	129,645	131,051	141,669	165,128	181,458	190,826
Michigan	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17,267	17,074	16,215	16,871	16,517
Mississippi	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19,082	24,208	33,925	45,761	37,966
Missouri	[illegible]	[illegible]	96	[illegible]	[illegible]	45	61	55	31	49
Montana	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8,420	8,826	8,742	9,382	9,118
Nebraska	[illegible]	[illegible]	[illegible]	835	[illegible]	308	297	229	215	330
Ohio	[illegible]	[illegible]	[illegible]	3,422	[illegible]	2,828	3,008	3,108	3,600	3,483
Oklahoma	[illegible]	[illegible]	[illegible]	[illegible]	124,616	139,299	133,794	141,019	154,455	151,660
Pennsylvania	[illegible]	[illegible]	[illegible]	[illegible]	14,118	12,915	12,996	12,695	12,667	11,374
Tennessee	[illegible]	[illegible]	8	[illegible]	9	8	10	8	19	18
Texas	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	754,710	760,215	820,210	903,498	744,834
Utah	NA	NA	NA	NA	NA	NA	NA	NA	18	637
Virginia	NA	NA	NA	2	[illegible]	1	23	61	33	43
West Virginia	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2,879	2,929	2,017	2,692	2,839
Wyoming	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	38,219	38,977	44,772	55,032	47,890
Other states*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	52,590	52,070
Total U.S.	1,253,214	1,402,228	1,386,645	1,505,613	1,577,904	1,713,655	1,733,939	1,856,987	2,020,185	1,841,940

* Individual figures not available for all states. First year of data does not necessarily indicate first year of production.

U S. Crude Oil Production
By State*
Thousands of barrels

	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Alabama	[illegible]	2,020	1,219	1,694	1,983	1,411	3,060	5,406	5,887	5,524
Alaska	NA	NA	NA	NA	NA	NA	NA	NA	29	187
Arkansas	31,108	29,708	29,432	29,881	29,130	28,369	29,356	31,047	28,700	26,329
California	327,607	354,561	359,450	365,085	355,865	354,812	350,754	339,646	313,672	308,946
Colorado	23,303	27,823	30,384	36,402	45,206	52,653	58,518	54,987	48,736	46,440
Florida	167	596	641	543	538	495	479	461	449	424
Illinois	62,028	60,240	60,588	59,026	66,798	81,423	82,340	77,083	80,275	76,727
Indiana	10,890	11,100	12,807	12,823	11,204	10,988	11,513	12,662	11,864	11,554
Kansas	107,986	114,922	114,807	114,566	119,317	121,068	124,204	123,614	119,942	119,543
Kentucky	10,381	11,632	11,918	11,019	13,721	16,518	17,628	17,029	17,509	27,272
Louisiana	208,965	232,281	243,929	256,832	245,558	271,010	299,421	329,896	313,891	362,666
Michigan	15,826	13,907	13,251	12,285	12,028	11,266	10,740	10,169	9,308	10,439
Mississippi	38,236	37,039	36,110	35,620	34,230	37,741	40,824	38,922	39,512	49,620
Missouri	32	24	21	19	66	72	65	65	84	75
Montana	8,139	8,958	9,406	11,325	14,146	18,654	21,709	27,172	27,957	29,857
Nebraska	1,517	550	2,866	6,541	7,782	11,303	16,204	19,586	20,373	22,881
Nevada	NA	NA	NA	NA	33	64	64	44	40	32
New Mexico	NA	NA	NA	NA	NA	NA	NA	NA	98,515	105,692
New York	NA	NA	NA	NA	NA	NA	NA	NA	1,763	1,970
North Dakota	NA	20	1,849	5,187	8,025	11,143	13,495	13,259	14,259	17,824
Ohio	3,381	3,110	3,660	3,610	3,865	4,293	4,785	5,478	6,260	5,978
Oklahoma	164,590	186,869	190,429	202,570	185,851	202,817	215,862	214,661	200,699	198,090
Pennsylvania	11,859	11,349	11,231	10,619	9,107	8,531	8,290	8,179	6,472	6,160
South Dakota	NA	NA	NA	NA	37	30	32	54	58	151
Tennessee	12	14	15	16	13	13	9	7	7	6
Texas	829,874	1,010,270	1,022,139	1,019,164	974,275	1,053,297	1,107,808	1,073,867	940,166	971,978
Utah	1,228	1,005	1,737	3,017	1,965	2,227	2,466	4,367	24,811	39,959
Virginia	21	12	11	9	7	4	4	5	4	6
West Virginia	2,808	2,197	2,052	2,098	2,302	2,320	2,179	2,215	2,186	2,184
Wyoming	61,631	68,920	88,014	83,618	93,531	99,483	104,830	109,584	115,572	126,050
Other states*	51,540	58,417	62,803	73,251	78,577	85,862	90,611	97,441	16	26
Total U.S.	1,973,574	2,247,711	2,289,836	2,357,082	2,314,988	2,484,428	2,617,283	2,616,901	2,449,016	2,574,590

* Individual figures not available for all states. First year of data does not necessarily indicate first year of production.

U.S. Crude Oil Production
By State
Thousands of barrels

	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
Alabama	7,329	6,931	7,473	9,175	8,498	8,064	8,030	7,348	7,635	7,701
Alaska	559	6,427	10,259	10,740	11,059	11,128	14,358	29,126	66,204	73,953
Arizona	73	73	99	68	64	97	132	2,924	3,370	2,433
Arkansas	30,117	29,246	27,649	27,406	26,737	25,930	28,824	21,075	19,464	18,049
California	305,352	299,609	296,590	300,908	300,009	316,428	345,295	359,219	375,496	375,291
Colorado	47,469	46,759	42,477	38,283	34,755	33,511	33,492	33,905	31,937	28,294
Florida	368	374	419	464	620	1,464	1,799	1,568	1,474	1,731
Illinois	77,341	76,818	78,796	74,795	70,168	63,708	61,661	59,142	56,391	50,724
Indiana	12,054	11,500	12,077	11,902	11,283	11,481	10,617	10,081	8,692	7,841
Kansas	113,453	112,241	112,076	109,107	106,252	104,793	103,738	99,200	94,505	88,716
Kentucky	21,147	19,344	17,789	18,344	19,772	19,386	18,066	15,535	14,036	12,924
Louisiana	400,832	424,962	477,153	515,097	549,698	594,853	674,318	774,527	817,426	844,603
Michigan	15,899	18,901	17,114	15,973	15,601	14,728	14,273	13,664	12,974	12,213
Mississippi	51,673	54,688	55,713	58,619	56,777	56,183	55,227	54,147	58,708	64,283
Missouri	75	72	65	59	65	73	97	75	65	67
Montana	30,240	30,906	31,618	30,870	30,647	32,778	35,380	34,959	48,460	43,954
Nebraska	23,825	24,369	24,894	21,846	19,113	17,216	13,850	13,373	13,183	12,106
Nevada	27	154	141	118	255	209	307	279	271	223
New Mexico	107,380	112,553	109,326	109,841	113,863	119,166	124,154	126,144	128,550	129,227
New York	1,813	1,698	1,589	1,679	1,874	1,632	1,735	1,972	1,532	1,256
North Dakota	21,392	23,652	25,181	25,030	25,731	26,350	27,126	25,315	25,040	22,703
Ohio	5,405	5,639	5,835	6,029	15,859	12,908	10,899	9,924	11,204	10,972
Oklahoma	192,913	193,081	202,732	201,962	202,524	203,441	224,839	230,749	223,623	224,729
Pennsylvania	6,009	5,843	5,402	5,083	5,113	4,922	4,337	4,387	4,160	4,448
South Dakota	281	233	169	215	247	219	239	211	187	158
Tennessee	20	17	11	16	15	11	7	7	6	32
Texas	927,479	939,191	933,328	977,925	989,529	1,000,749	1,052,706	1,119,962	1,133,380	1,151,775
Utah	37,594	33,118	31,229	30,475	28,579	25,298	24,112	24,048	23,504	23,295
Virginia	2	2	3	3	6	4	1	3	3	1
West Virginia	2,300	2,760	3,470	3,358	3,379	3,530	3,674	3,561	3,312	3,104
Wyoming	133,910	141,997	135,847	133,397	138,152	138,314	134,470	136,312	144,250	154,945
Total U.S.	2,574,933	2,621,758	2,676,183	2,752,723	2,786,822	2,848,514	3,027,763	3,215,742	3,329,042	3,371,751

U.S. Crude Oil Production
By State
Thousands of barrels

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Alabama	7,263	7,832	9,934	11,677	13,323	13,477	14,706	18,252	19,829	19,161
Alaska	83,616	79,494	72,893	72,323	70,603	69,834	63,398	169,201	448,620	511,335
Arizona	1,784	1,236	993	804	740	635	519	427	418	472
Arkansas	18,035	18,263	18,519	18,016	16,527	16,133	18,097	20,202	20,329	18,869
California	372,191	358,484	347,022	336,075	323,003	322,199	326,021	349,609	347,181	352,268
Central Coastal	81,062	85,978	77,339	78,720	75,603	72,943	68,978	67,420	63,052	60,564
East Central	133,437	128,949	127,139	124,458	121,171	125,753	144,173	179,554	189,930	203,120
North	583	652	667	705	546	474	419	359	321	241
South	157,109	142,905	141,883	132,192	125,683	123,029	112,451	102,276	93,878	88,343
Colorado	24,723	27,391	32,015	36,590	37,508	38,089	38,992	39,460	36,797	32,324
Florida	2,899	5,347	16,897	32,695	36,351	41,877	44,460	46,641	47,536	47,168
Illinois	43,717	39,084	34,874	30,669	27,553	26,067	26,272	25,608	23,362	21,793
Indiana	7,487	6,658	6,130	5,312	4,919	4,632	4,630	5,314	4,689	4,715
Kansas	84,853	78,532	73,741	66,227	61,691	59,106	58,714	57,496	56,586	56,995
Kentucky	11,575	10,692	9,702	8,687	7,837	7,556	7,483	6,581	5,724	5,514
Louisiana	906,907	935,243	891,827	831,524	737,324	650,840	606,501	562,905	532,740	489,687
Gulf Coast	859,569	889,828	847,554	791,760	698,488	613,502	568,274	526,013	497,513	457,747
Rest of State	47,338	45,415	44,273	39,764	38,836	37,338	38,227	36,892	35,227	31,940
Michigan	11,693	11,893	12,990	14,614	18,021	24,420	30,421	32,965	34,667	34,862
Mississippi	65,119	64,066	61,100	56,102	50,779	46,614	46,072	43,022	42,024	37,327
Missouri	66	66	60	60	56	57	61	60	54	91
Montana	37,879	34,999	33,904	34,620	34,554	32,844	32,814	32,680	30,467	29,957
Nebraska	11,351	10,062	8,705	7,240	6,611	6,120	6,182	5,968	5,862	6,068
Nevada	149	113	100	96	129	115	143	661	1,156	1,235
New Mexico	128,184	118,412	110,525	100,986	98,695	95,063	92,130	87,223	83,365	79,649
East	119,497	109,597	101,920	93,416	90,695	88,565	86,132	81,296	77,288	73,455
West	8,687	8,815	8,605	7,570	8,000	6,498	5,998	5,927	6,077	6,194
New York	1,194	1,126	1,018	967	896	875	857	824	852	855
North Dakota	21,998	21,653	20,624	20,235	19,697	20,452	21,725	23,273	24,812	30,914
Ohio	7,864	8,286	9,358	8,796	9,088	9,578	9,994	10,359	11,154	11,953
Oklahoma	223,574	213,313	207,633	191,204	177,785	163,123	161,426	156,382	150,456	143,642
Pennsylvania	4,093	3,708	3,411	3,282	3,178	3,264	3,019	2,715	2,887	2,874
South Dakota	160	237	219	275	494	472	447	632	869	846
Tennessee	309	308	198	201	769	682	598	820	593	614
Texas	1,249,697	1,222,926	1,301,685	1,294,671	1,262,126	1,221,929	1,189,523	1,137,880	1,074,050	1,018,094
Dist. 1	18,197	22,591	24,495	21,143	19,138	18,388	21,924	25,705	22,518	19,129
Dist. 2	82,136	76,428	81,809	77,449	71,590	67,827	65,338	61,396	58,704	52,755
Dist. 3	171,058	162,369	178,802	175,847	174,996	166,538	160,285	154,645	143,562	129,065
Dist. 4	89,356	77,349	68,115	60,091	51,487	44,501	38,868	34,343	31,628	30,968
Dist. 5	17,196	26,920	33,357	32,763	20,995	20,247	19,184	16,297	13,347	11,724
Dist. 6 *	81,224	74,248	85,092	79,785	84,828	81,570	77,279	66,199	58,280	53,553
Dist. 7B	38,133	36,490	37,995	36,232	36,190	35,015	33,687	32,441	29,999	28,266
Dist. 7C	43,696	43,200	42,080	39,826	31,118	39,225	38,846	29,584	30,463	30,594
Dist. 8	299,224	289,958	290,874	280,851	274,436	250,250	250,779	260,872	253,057	248,706
Dist. 8A	253,633	267,506	312,720	346,984	361,758	369,978	358,283	336,174	317,420	300,982
Dist. 9	54,656	51,855	49,711	45,950	42,080	38,768	37,304	35,842	34,404	33,151
Dist. 10	28,513	26,151	24,445	22,271	21,308	20,598	20,659	19,884	18,623	18,889
East Texas field	72,675	67,860	72,194	75,479	72,202	69,024	67,087	64,498	62,045	60,312
Utah	23,370	23,630	26,570	32,656	39,363	42,301	34,304	33,113	31,368	27,728
Virginia	1	1	0	0	3	2	3	2	2	4
West Virginia	3,124	2,969	2,677	2,385	2,665	2,479	2,519	2,518	2,382	2,406
Wyoming	160,345	148,114	140,011	141,911	139,997	135,943	134,149	136,472	137,385	131,890
Total U.S.	3,517,450	3,453,914	3,455,368	3,360,903	3,202,585	3,056,779	2,976,180	3,009,265	3,178,216	3,121,310

* Excluding East Texas field

U.S. Crude Oil Production
By State
Thousands of barrels

	1980	1981	1982	1983	1984	1985	1986
Alabama	22,153	20,680	20,014	18,746	19,804	21,581	21,122
Alaska	591,646	587,337	618,910	625,527	630,401	666,233	681,310
North Slope	NA	556,265	591,506	600,758	608,418	649,287	663,736
Rest of State	NA	31,072	27,404	24,769	21,983	16,946	17,574
Arkansas	18,210	18,352	18,849	18,849	18,730	19,044	15,778
Arizona	406	357	335	237	215	175	161
California	356,923	384,058	401,572	404,688	412,020	423,877	406,665
Central Coastal	58,505	67,663	76,475	75,783	76,068	75,071	68,056
East Central	215,071	236,073	244,087	250,720	256,406	270,540	268,881
North	308	279	199	180	184	185	188
South	83,032	81,013	80,811	78,005	79,362	78,081	69,540
Colorado	29,802	30,303	33,545	35,050	28,845	30,246	29,309
Florida	42,886	34,772	25,626	19,476	14,462	11,458	9,383
Illinois	22,702	24,090	27,710	29,200	28,988	30,265	27,245
Indiana	4,978	4,721	5,563	5,321	5,526	5,168	4,759
Kansas	60,191	65,810	70,525	71,594	75,729	75,407	67,034
Kentucky	5,946	6,548	7,349	7,886	7,777	7,790	6,475
Louisiana	469,141	449,315	458,395	481,569	515,268	508,239	512,108
Gulf Coast	436,705	414,359	423,131	448,032	482,562	476,933	482,992
Rest of State	32,436	34,956	35,264	33,537	32,706	31,306	29,116
Michigan	33,808	32,665	31,462	31,726	30,554	27,300	25,688
Missouri	130	226	202	269	280	243	110
Mississippi	35,948	34,204	33,047	35,455	32,376	30,641	29,997
Montana	29,084	30,817	30,921	28,775	29,761	29,768	27,072
Nebraska	6,240	6,671	6,812	6,080	6,452	6,943	7,098
New Mexico	75,324	71,568	71,024	75,169	79,336	78,530	75,712
East	69,212	64,853	64,609	68,658	71,947	70,534	67,428
West	6,112	6,715	6,415	6,511	7,389	7,996	8,284
Nevada	880	700	612	810	1,907	3,039	2,907
New York	824	841	834	831	840	1,071	853
North Dakota	40,337	46,424	47,271	50,690	52,652	50,857	45,626
Ohio	12,928	13,551	14,571	14,971	15,271	14,988	13,442
Oklahoma	150,140	154,056	158,621	158,604	168,385	162,739	149,105
Pennsylvania	2,651	3,329	4,282	4,282	4,281	3,851	3,793
South Dakota	769	973	1,158	1,172	1,340	1,596	1,586
Tennessee	840	918	1,132	1,056	920	786	644
Texas	977,436	945,132*	925,296	902,676	904,774	888,831	839,600
Dist 1	19,557	23,049	25,828	24,884	26,226	26,756	24,081
Dist 2	47,226	42,402	39,855	40,132	39,527	39,320	35,270
Dist 3	129,863	133,736	133,968	127,595	124,109	116,908	107,900
Dist 4	30,538	29,519	28,400	27,583	29,615	29,872	28,431
Dist 5	10,441	8,863	8,012	8,996	8,258	9,492	11,755
Dist 6	40,063	41,959	42,097	41,849	42,685	41,921	39,668
Dist 7B	28,915	30,171	22,656	34,075	36,050	37,518	33,969
Dist 7C	31,622	31,746	33,638	34,334	36,160	37,827	35,537
Dist 8	240,537	235,455	231,272	228,451	234,589	235,250	223,645
Dist 8A	278,044	253,798	238,130	224,381	215,609	206,583	200,176
Dist 9	34,161	35,436	37,485	38,352	40,487	39,859	36,252
Dist 10	19,016	19,743	20,979	21,205	22,349	20,598	18,469
East Texas field	58,450	56,225	52,875	51,039	49,110	46,927	44,453
Utah	24,978	25,860	22,440	29,534	34,689	40,792	39,172
Virginia	10	13	49	65	32	26	18
West Virginia	2,336	3,473	3,227	3,628	3,524	3,555	3,145
Wyoming	126,362	130,563	118,300	118,303	124,269	128,514	121,337
Total U.S.	3,146,365	3,128,624	3,156,715	3,170,999	3,249,696	3,274,553	3,168,252

* Excluding East Texas field

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, American Petroleum Institute, Energy Information Administration

Crude Oil Production from Stripper Wells
Thousands of barrels

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	46	87	117	162	139	121	144	125	122	158	173	172	189
Arizona	0	4	5	6	7	5	4	16	23	24	26	29	28
Arkansas	6,659	6,748	5,044	5,199	6,172	7,754	7,231	5,689	5,465	5,132	7,118	5,653	5,286
California	61,452	77,497	60,574	52,246	51,410	49,558	45,521	44,110	54,804	55,419	55,993	57,125	41,573
Colorado	1,920	1,829	1,953	2,012	2,017	2,018	1,955	1,989	2,159	2,204	3,630	3,330	2,682
Illinois	28,827	26,034	25,215	24,936	23,614	21,160	20,325	20,167	22,238	23,989	25,890	25,984	27,719
Indiana	5,254	4,920	4,032	4,471	5,255	4,560	4,557	4,019	4,781	4,568	4,336	4,401	4,104
Kansas	45,949	44,615	43,707	44,433	44,190	44,461	43,948	44,545	45,010	47,629	48,267	48,665	50,861
Kentucky	7,314	6,464	6,183	6,173	5,421	4,713	4,549	4,573	4,479	5,144	5,522	6,630	6,696
Louisiana	7,325	7,502	7,574	8,175	7,740	7,916	7,681	7,657	9,012	9,172	9,000	9,844	9,000
Michigan	4,863	4,849	4,760	4,602	6,233	5,602	5,620	4,717	2,449	2,820	3,145	3,228	3,272
Mississippi	438	571	619	1,215	1,349	1,233	1,601	1,890	3,805	2,237	1,286	1,330	1,721
Missouri	60	58	57	60	60	53	84	127	226	52	271	271	250
Montana	2,144	2,024	3,579	2,947	3,255	2,805	2,830	2,710	2,748	2,881	3,104	2,577	2,937
Nebraska	1,196	1,379	1,545	1,758	2,012	2,025	1,865	2,237	2,510	2,879	3,418	2,974	2,947
Nevada	0	0	0	0	0	0	0	9	0	0	0	NA	NA
New Mexico	10,224	10,835	11,082	11,141	11,547	11,831	12,068	12,924	13,463	14,207	14,722	15,016	15,367
New York	969	896	876	857	813	852	855	824	849	719	774	680	601
North Dakota	854	933	930	1,075	1,146	1,196	1,250	1,225	1,386	1,492	1,537	1,756	1,905
Ohio	6,157	6,362	6,705	6,996	7,251	7,808	8,367	9,049	9,486	10,199	10,480	10,690	10,491
Oklahoma	74,110	73,695	72,500	73,459	74,400	74,175	76,000	79,945	83,249	94,237	94,430	94,046	91,842
Pennsylvania	3,282	3,399	3,129	2,950	2,659	2,565	2,816	2,650	3,606	3,718	3,951	4,242	4,257
South Dakota	27	21	18	21	16	16	22	26	39	55	44	82	65
Tennessee	15	108	126	140	194	270	387	294	291	NA	584	510	451
Texas	112,247	126,387	126,018	129,700	127,886	131,211	136,590	141,825	145,940	143,929	153,689	152 720	158,738
Utah	132	123	98	262	136	135	180	220	377	NA	543	1,089	1,550
Virginia	0	3	3	3	2	2	4	10	13	49	22	27	21
West Virginia	2,407	2,673	2,478	2,400	2,384	2,255	2,382	2,313	2,607	2,683	3,117	3,270	3,346
Wyoming	1,785	1,898	5,107	4,791	5,225	5,333	5,597	5,211	5,367	6,354	6,944	7,119	7,983
Total U.S.	385,684	411,936	394,163	392,191	392,532	391,633	394,405	401,095	426,502	441,951	462,013	463,459	455,884

Data from Oil & Gas Journal Energy Database
Source: National Stripper Well Association

Percent of Crude Oil
Produced by Stripper Wells

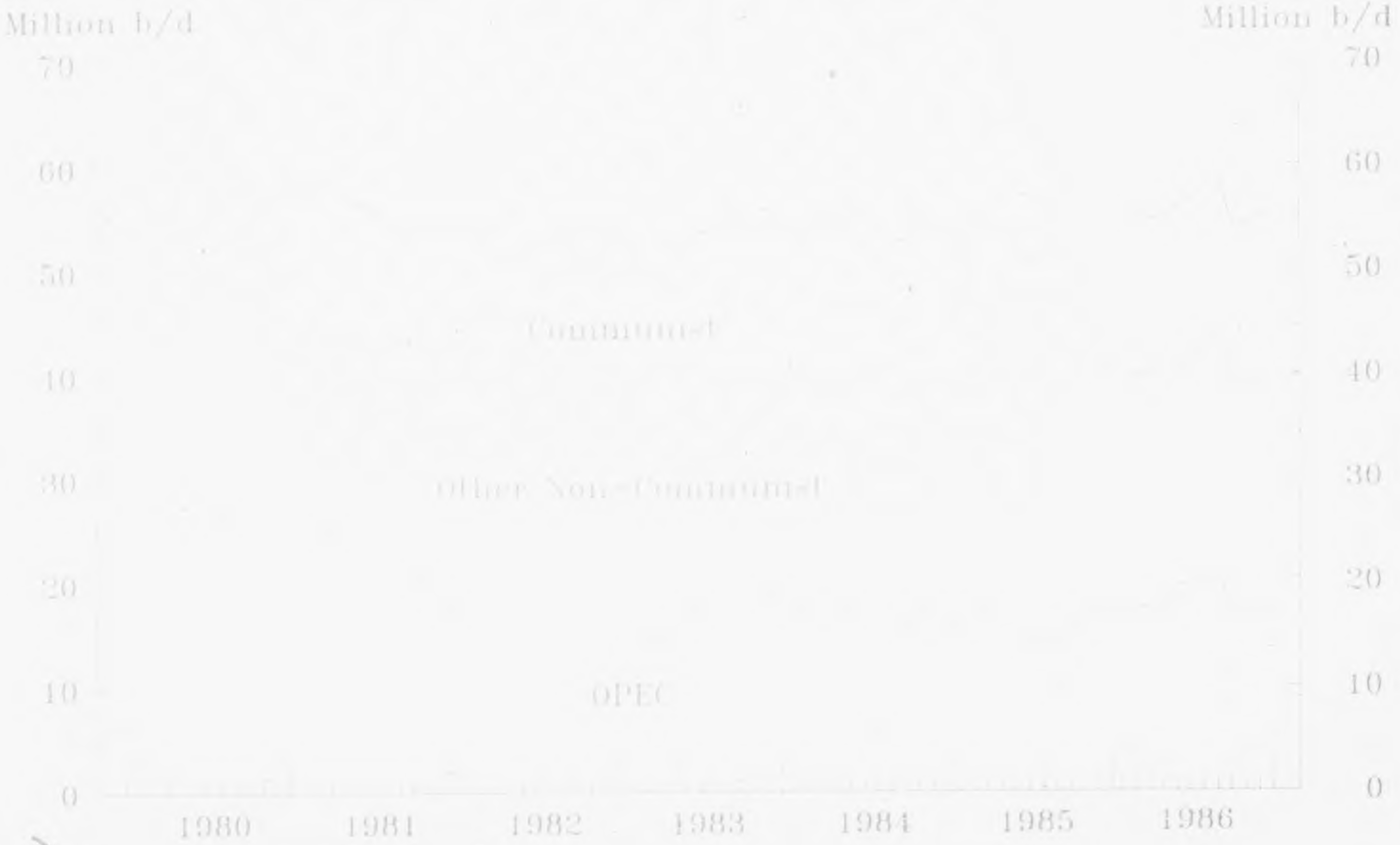
	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Alabama	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.4	0.0
Arizona	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	0.2	1.8	0.1	0.0
Arkansas	33.0	35.0	26.0	31.0	27.0	29.0	39.0	40.0	38.0	19.0	14.0	32.0	39.0	39.3	37.0	40.8
California	20.0	19.0	19.0	[illegible]	18.0	16.0	12.0	14.0	17.0	15.0	12.0	14.0	16.3	18.8	18.3	24.0
Colorado	11.0	8.0	4.0	[illegible]	6.0	8.0	8.0	7.0	7.0	6.0	7.0	8.0	7.5	6.3	5.3	4.9
Illinois	99.0	99.0	100.0	97.0	99.0	91.0	81.0	86.0	100.0	98.0	98.0	98.0	98.0	95.0	94.0	94.4
Indiana	91.0	98.0	97.0	100.0	98.0	93.0	96.0	100.0	100.0	100.0	100.0	100.0	96.7	99.7	98.9	100.0
Kansas	47.0	60.0	66.0	63.0	59.0	65.0	65.0	60.0	69.0	67.0	67.0	66.0	66.0	68.4	69.4	75.5
Kentucky	40.0	95.0	96.0	[illegible]	56.0	48.5	43.0	40.0	98.0	73.0	72.0	97.0	98.5	94.1	86.2	82.5
Louisiana	3.0	3.0	1.0	2.0	1.0	2.0	2.0	2.0	3.0	1.0	1.0	0.9	0.9	0.9	0.9	1.0
Michigan	NA	NA	40.0	37.0	30.0	29.0	39.0	31.0	36.0	38.0	40.0	41.0	39.8	37.2	33.3	27.1
Mississippi	2.0	[illegible]	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	1.0	1.6	0.7	0.8	1.1
Missouri	100.0	100.0	90.0	90.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.0	100.0	98.9	100.0	100.0
Montana	12.0	[illegible]	12.0	11.0	10.0	12.0	11.0	14.0	13.0	10.4	13.0	20.0	5.6	5.6	6.2	5.9
Nebraska	10.0	10.0	7.0	3.0	4.0	[illegible]	2.0	1.0	6.0	7.0	9.0	9.0	11.8	12.9	16.5	20.9
New Mexico	5.0	8.0	9.0	10.0	10.0	10.0	10.0	8.0	8.0	8.0	9.0	8.0	8.6	9.1	10.1	10.4
New York	97.0	100.0	100.0	100.0	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.4	100.0	100.0	100.0
North Dakota	6.6	1.0	1.0	1.0	2.0	3.0	2.0	1.0	3.0	4.0	4.0	4.0	1.3	3.9	88.3	4.7
Ohio	NA	NA	NA	NA	NA	29.0	35.0	47.0	54.0	55.0	60.0	73.0	70.0	70.0	70.0	70.0
Oklahoma	46.0	49.0	60.0	59.0	58.0	59.0	50.0	48.0	46.0	40.0	39.0	38.0	37.9	37.6	38.7	41.7
Pennsylvania	96.0	99.0	98.0	100.0	96.0	97.0	98.0	100.0	91.0	99.0	91.0	100.0	100.0	100.0	100.0	97.7
South Dakota	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.0	11.8	9.8	4.3
Tennessee	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0	7.5	12.4	22.1	14.0
Texas	17.0	19.0	19.0	19.0	16.0	13.0	12.0	15.0	13.0	13.0	12.0	10.0	10.0	9.0	8.7	10.0
Utah	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0	1.0	1.0	0.4	0.4	0.4	0.3
Virginia	100.0	100.0	100.0	100.0	100.0	97.0	100.0	100.0	100.0	100.0	84.0	100.0	100.0	100.0	100.0	100.0
West Virginia	100.0	100.0	[illegible]	[illegible]	100.0	100.0	100.0	100.0	100.0	100.0	99.0	100.0	100.0	100.0	100.0	100.0
Wyoming	6.0	[illegible]	4.0	1.0	3.0	2.0	2.0	1.0	1.0	2.0	2.0	2.0	2.1	2.1	1.3	1.4
Total U S	22.4	22.6	21.7	20.2	19.9	20.7	16.0	15.5	14.6	13.5	12.5	12.3	11.9	11.5	12.9	12.9

Percent of Crude Oil
Produced by Stripper Wells

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Arizona	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Arkansas	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
California	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Colorado	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Illinois	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Indiana	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Kansas	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Kentucky	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Louisiana	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Michigan	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Mississippi	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Missouri	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Montana	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Nebraska	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
New Mexico	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
New York	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
North Dakota	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Ohio	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Oklahoma	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Pennsylvania	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
South Dakota	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Tennessee	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Texas	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Utah	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Virginia	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
West Virginia	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Wyoming	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Total U.S.	13.2	13.1	12.3	12.6	[illegible]	13.1	14.0	14.0	[illegible]	[illegible]

[illegible]
Source: Independent Petroleum Association of America

Worldwide Crude Oil Production



Source: OGJ

Worldwide Crude Oil Production
By Country
Thousands of barrels per day

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
United States	9,658.9	9,636.8	9,521.7	9,215.1	8,888.3	8,351.6	8,094.9	8,253.7	8,670.2	8,578.0
Canada	1,305.1	1,381.9	1,541.3	1,813.3	1,712.8	1,456.8	1,321.3	1,458.9	1,343.3	1,518.6
Argentina	384.4	417.3	433.9	424.7	422.6	392.1	388.2	436.2	450.6	482.3
Bolivia	19.2	32.2	40.9	49.8	52.4	39.9	42.9	37.9	34.2	33.8
Brazil	164.3	170.4	165.9	171.9	180.3	181.4	171.9	168.3	163.6	173.4
Chile	36.8	34.9	33.4	38.0	31.2	25.0	25.0	24.3	19.2	24.9
Colombia	215.8	228.3	216.7	206.6	183.4	160.8	149.4	138.3	141.7	135.0
Ecuador*	4.6	3.0	77.0	199.4	168.6	161.3	186.7	180.3	201.9	222.3
Guatemala	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mexico	427.5	435.7	444.5	461.7	566.1	727.3	804.6	996.1	1,206.9	1,496.8
Peru	68.2	62.5	64.2	71.8	78.0	74.2	75.0	88.3	156.3	190.2
Trinidad	140.1	129.3	149.6	172.6	186.0	205.2	205.0	230.8	235.0	211.8
Venezuela*	3,704.1	3,542.9	3,218.6	3,394.3	2,968.3	2,348.2	2,293.4	2,233.3	2,141.8	2,387.0
Latin America	5,179.3	5,070.4	4,837.1	5,176.6	4,832.8	4,315.3	4,342.1	4,533.7	4,751.1	5,357.4
Western Hemisphere	16,143.3	16,089.1	15,900.0	16,205.0	15,433.9	14,123.6	13,758.3	14,248.3	14,764.6	15,454.0
Austria	51.8	49.1	44.8	49.0	47.1	41.8	36.5	36.0	35.0	35.0
Denmark	NA	NA	NA	4.0	3.8	3.6	3.0	8.8	10.0	10.5
France	48.3	38.8	31.7	0.0	25.0	22.0	20.0	20.1	20.0	20.0
Germany, West	147.2	145.6	138.1	133.2	121.8	114.3	110.0	109.1	100.5	95.1
Greece	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Italy	29.0	24.1	22.0	18.9	19.1	19.8	18.8	19.3	17.0	29.9
Netherlands	38.1	32.9	31.3	29.4	30.1	30.5	30.8	29.8	29.6	29.5
Norway	NA	NA	33.0	33.5	34.7	196.7	278.8	282.5	355.6	403.6
Spain	4.6	2.5	2.5	19.7	34.9	38.8	40.0	25.2	17.9	18.3
Turkey	69.5	66.0	68.0	70.0	65.8	64.2	64.8	62.1	50.0	51.7
United Kingdom	1.9	1.6	1.6	2.2	2.2	20.3	241.1	767.6	1,079.6	1,571.3
Western Europe	390.4	360.5	372.9	359.9	384.0	552.1	843.7	1,360.4	1,715.2	2,264.8
Algeria*	961.3	650.8	1,008.3	1,056.7	926.7	875.0	1,004.2	1,030.6	1,089.8	1,102.1
Angola-Cabinda	103.8	109.6	139.0	162.7	170.9	167.6	131.3	177.5	166.3	139.7
Cameroon	NA	NA	NA	NA	NA	NA	NA	NA	9.4	21.3
Congo	0.5	0.5	5.2	43.2	35.8	38.3	39.8	35.4	33.0	46.3
Egypt	326.2	299.3	216.7	192.9	150.3	232.0	325.5	416.9	483.8	506.7
Gabon*	103.6	110.0	114.7	151.0	175.6	200.0	212.5	224.2	225.0	215.3
Ghana	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ivory Coast	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Libya*	3,321.4	2,763.9	2,215.9	2,187.9	1,542.0	1,498.1	1,913.8	2,047.0	1,983.3	2,059.3
Morocco	1.6	0.9	0.5	1.0	1.2	1.0	1.0	1.0	1.0	1.0
Nigeria*	1,083.7	1,526.3	1,816.9	2,043.7	2,246.2	1,777.8	2,060.3	2,089.5	1,916.3	2,307.0
Tunisia	81.8	85.3	84.5	86.4	85.2	103.5	77.4	102.0	100.0	100.0
Zaire	NA	NA	NA	NA	NA	NA	18.3	24.0	22.9	20.6
Africa	5,983.8	5,546.5	5,601.7	5,925.5	5,333.8	4,893.2	5,784.2	6,148.3	6,030.6	6,519.3

Worldwide Crude Oil Production
By Country
Thousands of barrels per day

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Bahrain	76.4	77.1	74.8	72.8	71.8	61.4	58.3	58.0	52.3	50.1
Iran*	3,834.1	4,530.2	4,937.5	5,872.0	6,025.9	5,365.1	5,881.7	5,665.8	5,215.3	3,023.7
Iraq*	1,566.5	1,719.9	1,448.1	1,973.0	1,772.8	2,246.7	2,160.8	2,233.3	2,632.2	3,445.0
Israel	70.4	130.2	120.0	92.5	102.0	75.0	1.0	1.0	11.0	33.8
Kuwait*	2,738.1	2,947.0	3,276.6	3,024.1	2,548.6	2,081.3	1,915.0	1,721.8	1,864.8	2,194.2
Neutral Zone* +	501.3	541.8	+ NA	+ NA	+ NA	+ NA	471.0	365.5	456.9	561.4
Oman	337.2	294.2	287.1	297.7	300.5	341.5	365.6	344.8	314.7	294.8
Qatar*	370.2	428.9	481.9	580.3	518.8	441.4	489.8	439.1	483.1	506.4
Saudi Arabia*	3,551.9	4,526.3	6,012.7	7,598.0	8,477.8	7,074.8	8,345.3	9,025.0	8,062.5	9,245.0
Syria	70.0	113.0	120.0	120.0	143.6	175.4	175.0	206.5	186.4	167.6
United Arab Emirates*	777.9	1,058.3	1,202.3	1,535.9	1,680.7	1,691.3	1,943.9	2,012.3	1,833.1	1,830.4
Middle East	13,896.2	16,366.9	17,961.0	21,166.3	21,642.5	19,553.9	21,807.3	22,073.1	21,112.3	21,352.3
Australia	175.6	315.0	341.0	375.0	393.0	416.3	425.9	433.8	430.6	439.8
Brunei	* 148.5	* 200.0	* 299.0	* 322.5	* 339.0	* 287.0	* 361.0	* 414.0	* 454.0	* 499.0
Burma	16.4	17.0	19.0	21.0	18.0	20.0	20.0	24.7	25.0	30.0
India	138.6	145.0	151.0	149.8	154.0	173.5	[illegible]	207.0	225.8	245.0
Indonesia*	852.8	889.0	1,080.0	1,290.0	1,394.0	1,313.0	1,505.9	1,685.6	1,643.3	1,598.6
Japan	16.3	15.0	15.0	15.0	14.0	13.0	12.0	10.0	10.0	9.3
Malaysia	* NA	* NA	* NA	* NA	* NA	* NA	* NA	* NA	* NA	* NA
New Zealand	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pakistan	9.9	10.0	9.0	9.0	9.0	6.0	6.9	10.0	10.0	10.0
Philippines	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.9
Taiwan	1.8	2.0	2.0	2.0	3.0	5.0	5.0	5.0	5.0	6.3
Thailand	0.4	0.3	0.3	0.2	0.2	NA	NA	NA	NA	NA
Asia-Pacific	1,359.9	1,593.3	1,889.3	2,144.5	2,334.2	2,333.8	2,511.8	2,790.1	2,803.7	2,859.9
Eastern Hemisphere	21,530.3	23,867.2	25,824.9	29,596.2	29,694.4	27,233.1	30,947.0	32,371.9	31,661.9	32,996.3
Non-Communist	37,773.6	39,956.3	41,724.9	45,301.2	45,128.4	41,356.7	44,705.3	46,618.2	46,426.4	48,450.3
China	230.0	326.7	525.8	645.8	970.0	1,450.0	1,652.1	1,790.6	1,916.2	2,129.2
Rumania	270.0	270.0	275.4	276.3	285.8	290.0	290.0	284.3	300.0	276.7
USSR	7,048.6	7,435.3	7,850.3	8,417.8	9,164.0	9,823.3	10,359.3	10,926.9	11,416.2	11,706.3
Other Communist	81.3	88.3	85.0	100.4	110.0	110.0	110.0	110.0	190.0	186.7
Communist	7,609.8	8,120.3	8,736.5	9,440.3	10,529.8	11,673.3	12,411.3	13,111.8	13,822.4	14,298.8
Total World	45,383.4	48,076.6	50,461.4	55,241.5	55,658.2	53,030.0	57,116.7	59,730.0	60,248.8	62,749.2
OPEC*	23,371.9	25,239.3	26,860.5	30,827.3	30,443.9	27,073.9	30,384.3	30,953.3	29,749.2	30,697.8

Worldwide Crude Oil Production
By Country
Thousands of barrels per day

	1980	1981	1982	1983	1984	1985	1986
United States	8,584.2	8,580.6	8,656.7	8,674.1	8,721.3	8,919.8	8,684.5
Canada	1,411.7	1,285.5	1,240.9	1,383.9	1,402.7	1,455.8	1,463.7
Argentina	487.1	496.4	484.3	478.9	462.3	448.2	429.5
Bolivia	90.0	24.7	26.0	20.3	20.2	20.8	18.7
Brazil	182.1	214.7	256.3	328.0	453.7	546.4	575.2
Chile	28.7	40.2	43.3	39.3	38.2	33.4	31.3
Colombia	125.0	125.0	140.0	150.9	165.1	175.5	305.6
Ecuador*	222.1	211.5	209.2	233.0	258.8	275.7	285.0
Guatemala	4.6	5.0	5.0	6.4	4.7	3.1	4.9
Mexico	1,930.3	2,311.8	2,745.8	2,686.8	2,752.8	2,734.0	2,425.3
Peru	191.4	193.5	195.8	170.5	179.8	188.4	177.6
Trinidad	211.4	240.0	181.0	162.2	165.5	176.4	167.4
Venezuela*	2,157.2	2,108.6	1,889.0	1,775.8	1,710.3	1,645.8	1,635.8
Latin America	5,569.8	5,971.3	6,175.7	6,051.9	6,211.3	6,247.7	6,056.3
Western Hemisphere	15,565.6	15,837.3	16,073.3	16,109.9	16,335.3	16,623.3	16,204.4
Austria	29.0	25.0	25.0	24.0	23.1	21.8	22.2
Denmark	6.5	15.3	35.3	43.3	45.4	58.9	73.1
France	25.9	34.0	33.5	35.0	35.0	50.8	58.8
Germany, West	89.9	85.4	82.2	80.9	80.1	81.4	79.4
Greece	NA	NA	21.0	23.8	26.3	26.2	24.5
Italy	39.0	36.8	36.8	35.0	45.0	38.0	49.0
Netherlands	25.1	26.6	27.8	49.8	60.6	66.8	76.3
Norway	528.6	502.0	490.5	610.0	692.0	783.3	850.4
Spain	30.0	24.0	30.0	58.0	47.0	45.3	37.4
Turkey	43.5	46.7	50.0	43.9	40.9	41.6	46.5
United Kingdom	1,619.5	1,811.2	2,061.2	2,284.7	2,501.1	2,533.1	2,534.8
Western Europe	2,437.0	2,606.9	2,893.2	3,298.3	3,596.5	3,747.2	3,852.3
Algeria*	1,016.7	812.5	774.6	685.0	608.3	647.1	622.0
Angola-Cabinda	150.0	132.0	121.9	172.3	188.8	229.5	277.3
Cameroon	57.8	88.8	109.0	114.1	116.2	133.8	180.4
Congo	55.8	81.5	87.0	87.0	140.5	97.9	115.0
Egypt	596.4	598.3	667.5	726.6	759.9	891.6	810.3
Gabon*	180.0	150.5	140.3	148.3	150.0	152.5	159.0
Ghana	2.0	2.0	2.0	2.0	2.0	2.0	0.5
Ivory Coast	NA	5.2	5.8	22.8	24.5	28.0	20.0
Libya*	1,785.4	1,107.5	1,200.0	1,018.3	1,091.7	1,047.5	1,037.3
Morocco	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Nigeria*	2,057.5	1,436.7	1,289.7	1,233.8	1,418.8	1,481.7	1,464.0
Tunisia	110.0	118.0	120.0	120.0	120.0	117.6	104.6
Zaire	20.5	19.5	22.0	24.0	25.1	27.2	22.1
Africa	6,033.2	4,553.8	4,541.3	4,355.1	4,646.7	4,857.3	4,813.3

Worldwide Crude Oil Production
By Country
Thousands of barrels per day

	1980	1981	1982	1983	1984	1985	1986
Bahrain	48.3	45.5	43.9	41.3	41.2	41.8	42.0
Iran*	1,470.8	1,333.3	1,991.7	2,466.7	2,175.0	2,241.7	1,850.0
Iraq*	2,641.7	916.3	916.7	883.3	1,208.3	1,447.5	1,690.8
Israel	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Kuwait*	1,384.0	940.0	666.7	887.5	945.8	862.5	1,241.7
Neutral Zone* +	540.3	372.3	304.7	391.2	425.5	352.5	337.5
Oman	279.1	319.3	321.5	373.7	405.2	482.2	541.7
Qatar*	471.7	405.7	331.0	283.2	397.4	298.8	331.7
Saudi Arabia*	9,638.3	9,641.7	6,375.0	4,850.0	4,466.7	3,283.3	4,833.3
Syria	165.0	167.7	160.0	166.4	166.0	177.5	193.8
United Arab Emirates*	1,708.8	1,513.0	1,229.8	1,109.2	1,151.2	1,141.7	1,327.5
Middle East	**18,349.0**	**15,655.6**	**12,341.9**	**11,453.4**	**11,383.3**	**10,330.4**	**12,390.9**
Australia	376.9	392.6	371.8	416.4	489.8	561.9	502.8
Brunei#	228.0	165.0	153.0	155.0	160.0	154.2	165.0
Burma	30.0	30.0	30.0	30.0	30.0	30.0	30.0
India	181.1	291.0	390.8	430.0	528.3	605.4	625.0
Indonesia*	1,575.9	1,603.8	1,344.8	1,301.1	1,360.8	1,242.3	1,256.7
Japan	9.8	7.7	8.0	8.3	8.1	10.6	13.0
Malaysia	287.9	264.2	306.3	366.3	425.0	440.4	507.1
New Zealand	2.1	9.6	14.8	14.8	16.8	18.8	28.6
Pakistan	10.0	10.0	12.0	12.3	17.4	34.0	40.6
Philippines	18.5	2.0	6.2	12.9	12.0	10.8	6.8
Taiwan	4.5	3.0	3.0	3.0	3.0	2.4	2.0
Thailand	NA	NA	NA	6.3	18.1	34.3	34.8
Asia-Pacific	**2,725.8**	**2,778.8**	**2,640.1**	**2,756.3**	**3,069.3**	**3,145.0**	**3,212.6**
Eastern Hemisphere	29,544.9	25,695.1	22,416.4	21,835.9	22,695.8	22,079.8	24,257.3
Non-Communist	45,110.5	41,432.4	38,489.8	37,945.8	39,031.1	38,703.2	40,461.7
China	2,118.8	2,012.5	2,020.0	2,101.6	2,262.2	2,449.7	2,552.8
Romania	250.0	280.0	230.8	242.5	254.2	234	223.1
USSR	12,009.2	12,174.2	12,235.2	12,328.8	12,234.5	11,904.3	12,298.7
Other Communist	189.2	179.2	150.0	215.0	235.3	234.5	212.0
Communist	**14,567.1**	**14,595.8**	**14,635.5**	**14,887.9**	**14,996.1**	**14,822.8**	**15,285.6**
Total World	59,677.6	56,028.3	53,125.3	52,833.8	54,027.2	53,525.9	55,748.3
OPEC*	26,850.4	22,553.5	18,663.4	17,266.3	17,368.5	16,120.4	18,072.3

* OPEC Member
+ Production shared equally by Kuwait and Saudi Arabia. For years 1972-1975 production included with Kuwait and Saudi Arabia
# Brunei includes Malaysia for 1970-1979

Data from Oil & Gas Journal Energy Database
Source: Oil & Gas Journal

Worldwide Crude Oil Production
OPEC, Non-Communist, Total
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1970													
OPEC	22,413	23,307	22,759	23,046	23,210	22,650	22,414	23,682	23,629	24,175	24,556	24,622	**23,371.9**
Non-Communist	36,538	37,506	36,911	37,183	37,260	36,635	36,470	38,151	38,395	38,943	39,643	39,650	**37,773.6**
Total World	43,898	44,946	44,368	44,654	44,814	44,252	44,118	45,823	46,255	46,643	47,411	47,421	**45,383.4**
1971													
OPEC	25,560	25,307	25,635	25,556	26,047	24,708	24,755	24,078	24,745	24,571	25,646	26,264	**25,239.3**
Non-Communist	40,698	40,335	40,604	40,299	40,712	39,528	39,618	38,720	39,462	39,077	40,105	40,319	**39,956.3**
Total World	48,516	48,200	48,540	48,237	48,666	47,433	47,688	46,649	47,900	47,555	48,572	48,965	**48,076.6**
1972													
OPEC	26,757	26,336	25,765	26,123	25,711	24,616	24,828	27,668	28,031	28,516	28,937	29,039	**26,860.5**
Non-Communist	41,376	41,180	40,577	40,847	40,359	39,232	39,644	42,806	42,893	43,602	43,959	44,225	**41,724.9**
Total World	49,862	49,738	49,181	49,489	49,057	47,947	48,413	51,575	51,803	52,418	52,859	53,196	**50,461.4**
1973													
OPEC	30,094	30,304	30,470	30,374	31,601	30,785	32,500	31,834	32,833	31,524	28,607	29,001	**30,827.3**
Non-Communist	45,310	45,362	45,537	45,419	46,622	45,966	47,587	46,900	47,809	46,182	43,243	43,679	**45,801.2**
Total World	54,352	54,435	54,645	54,580	55,891	55,317	57,051	56,369	57,487	55,956	53,088	53,729	**55,241.5**
1974													
OPEC	30,452	30,788	31,346	31,896	32,061	31,613	30,533	29,367	29,629	29,364	29,555	28,723	**30,443.9**
Non-Communist	45,266	45,636	46,253	46,626	46,773	46,283	45,214	43,993	44,240	44,023	43,913	43,320	**45,128.4**
Total World	55,464	55,724	56,451	56,904	57,200	56,781	55,721	54,335	54,933	54,992	54,954	54,439	**55,658.2**
1975													
OPEC	27,088	25,951	25,930	25,731	26,052	26,770	27,856	29,171	30,600	25,165	27,102	27,511	**27,073.9**
Non-Communist	41,599	40,341	40,119	39,680	39,978	41,136	42,367	43,491	44,912	39,503	41,346	41,808	**41,356.7**
Total World	52,789	51,635	51,497	51,065	51,403	52,642	54,113	55,231	56,938	51,542	53,421	53,984	**53,030.0**
1976													
OPEC	26,646	28,126	29,500	28,769	28,663	29,953	30,282	30,612	31,360	32,903	33,454	34,343	**30,384.3**
Non-Communist	40,859	42,140	43,319	42,608	42,765	44,353	44,700	45,024	45,792	47,443	47,996	49,465	**44,705.3**
Total World	52,941	54,210	55,511	54,854	55,059	56,842	57,088	57,482	58,305	60,143	60,706	62,259	**57,116.7**
1977													
OPEC	29,079	32,318	32,614	31,919	29,861	30,513	29,653	29,964	31,026	30,557	31,369	32,567	**30,953.3**
Non-Communist	44,204	47,638	47,994	47,029	45,196	46,112	45,032	45,887	47,024	46,644	47,608	49,050	**46,618.2**
Total World	57,025	60,481	61,004	60,036	58,230	59,188	58,146	59,026	60,179	59,990	60,985	62,470	**59,730.0**
1978													
OPEC	27,324	28,550	28,800	29,501	28,228	29,298	29,225	29,868	31,899	32,026	31,774	30,497	**29,749.2**
Non-Communist	43,409	44,733	45,111	45,785	44,863	46,162	45,884	46,616	48,552	48,945	49,031	48,026	**46,426.4**
Total World	56,854	58,258	58,660	59,490	58,580	59,912	59,718	60,501	62,526	63,085	63,221	62,181	**60,248.8**
1979													
OPEC	28,822	28,992	30,223	31,070	31,102	31,038	31,714	31,336	31,053	31,096	31,219	30,708	**30,697.8**
Non-Communist	45,820	46,453	47,628	48,693	48,743	48,907	49,642	49,160	48,998	49,080	49,285	48,995	**48,450.3**
Total World	60,060	60,643	61,818	63,013	62,683	63,087	63,855	63,508	63,242	63,588	63,848	63,645	**62,749.2**

Worldwide Crude Oil Production
OPEC, Non-Communist, Total
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1980													
OPEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	26,838	25,469	23,009	24,029	24,947	26,850.4
Non-Communist	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	41,308	42,144	43,450	45,110.5
Total World	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	56,759	58,035	59,677.6
1981													
OPEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20,499	21,482	22,553.5
Non-Communist	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	40,283	41,432.4
Total World	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	54,851	56,028.3
1982													
OPEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18,684	18,663.4
Non-Communist	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	39,064	38,489.8
Total World	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	54,190	53,125.3
1983													
OPEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18,637	17,266.3
Non-Communist	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	39,894	37,945.8
Total World	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	54,571	52,833.8
1984													
OPEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17,368.5
Non-Communist	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	39,284	39,031.1
Total World	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	54,027.2
1985													
OPEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16,120.4
Non-Communist	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	38,703.2
Total World	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	53,525.9
1986													
OPEC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18,072.3
Non-Communist	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	40,464.5
Total World	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	55,748.3

Data from Oil & Gas Journal [illegible]
Source: Oil & Gas Journal

Worldwide Producing Oil Wells

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Argentina	4,095	4,096	5,450	5,697	6,020	6,424	6,822	6,822	6,822	7,874	8,189	8,581	8,774
Bolivia	281	204	251	283	286	180	292	296	300	260	352	346	346
Brazil	1,247	1,338	1,371	1,441	1,522	1,605	1,615	1,952	2,115	2,115	3,386	3,514	3,514
Canada	21,202	18,679	25,056	26,112	25,800	18,323	20,721	33,404	33,907	36,388	39,146	43,480	50,037
Chile	316	446	441	436	425	431	380	305	266	266	266	286	353
Colombia	2,078	1,895	2,036	2,118	1,980	2,111	2,123	2,123	2,123	2,307	2,509	2,709	2,747
Ecuador *	849	959	950	969	979	472	477	470	887	523	NA	816	934
Mexico	3,301	3,285	3,382	3,419	4,145	4,200	3,384	3,593	3,605	3,640	NA	3,209	3,737
Peru	2,432	2,417	2,477	2,495	2,567	2,766	2,782	1,949	2,780	3,329	4,083	3,572	3,577
Trinidad & Tobago	3,020	2,595	2,968	3,083	3,284	3,322	3,349	3,488	3,142	3,089	3,145	3,157	3,211
United States	504,000	494,352	507,935	508,561	508,340	508,000	526,855	587,000	608,900	636,900	615,500	642,000	639,735
Venezuela *	12,450	10,718	10,720	11,932	11,909	12,486	5,042	13,610	14,029	11,604	13,512	10,103	10,103
Other	8	8	13	15	20	32	37	35	44	47	81	104	150
Western Hemisphere	**555,283**	**540,825**	**563,049**	**558,561**	**587,277**	**560,353**	**573,879**	**655,047**	**678,920**	**708,342**	**690,169**	**721,857**	**727,218**
Austria	1,271	1,291	1,222	1,219	1,250	1,254	1,120	1,164	1,229	1,240	1,243	1,605	1,609
France	295	274	287	288	293	293	296	374	432	470	550	601	649
Germany (West)	2,699	2,699	2,827	2,933	2,933	2,945	2,957	3,004	3,077	3,142	3,136	3,152	3,129
Italy	111	117	126	125	120	121	116	123	125	140	140	195	220
Netherlands	347	368	392	393	416	472	480	516	533	623	633	644	663
Norway	6	24	29	36	50	50	100	117	131	144	171	178	178
Spain	24	25	25	24	25	27	31	31	36	41	42	43	47
Turkey	313	354	361	368	380	402	414	418	386	427	440	449	471
United Kingdom	57	77	90	135	109	240	290	361	379	387	535	627	661
Other	6	6	11	13	18	18	11	18	36	41	32	15	16
Western Europe	**5,129**	**5,235**	**5,370**	**5,534**	**5,594**	**5,823**	**5,815**	**6,126**	**6,364**	**6,655**	**6,922**	**7,509**	**7,643**
Abu Dhabi *	180	216	209	232	240	250	341	277	352	222	254	254	392
Bahrain	241	252	323	235	233	233	242	243	243	243	257	271	280
Dubai *	45	54	* 60	46	[illegible]	29	29	87	141	165	141	152	149
Iran *	[illegible]	[illegible]	828	518	561	543	543	530	530	530	530	361	361
Iraq *	[illegible]	[illegible]	170	290	290	290	290	280	280	280	290	NA	NA
Israel	29	19	33	20	25	16	9	18	11	16	10	9	9
Kuwait *	[illegible]	[illegible]	596	586	586	[illegible]	[illegible]	546	536	530	530	572	363
Neutral Zone *	[illegible]	[illegible]	376	[illegible]	355	424	[illegible]	450	445	450	464	493	493
North Yemen	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0	0	45
Oman	[illegible]	208	210	[illegible]	[illegible]	284	[illegible]	[illegible]	416	427	555	641	736
Qatar *	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	125	125	174	174	174
Ras Al Khaimah	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	4	6
Saudi Arabia *	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	555	555	555	NA	NA
Sharjah *	[illegible]	[illegible]	2	1	[illegible]	[illegible]	4	[illegible]	4	12	18	19	20
Syria	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	801	801	802	847	847
Middle East	**3,049**	**3,565**	**3,946**	**3,793**	**3,927**	**3,979**	**3,979**	**[illegible]**	**4,250**	**4,216**	**4,582**	**3,797**	**3,875**

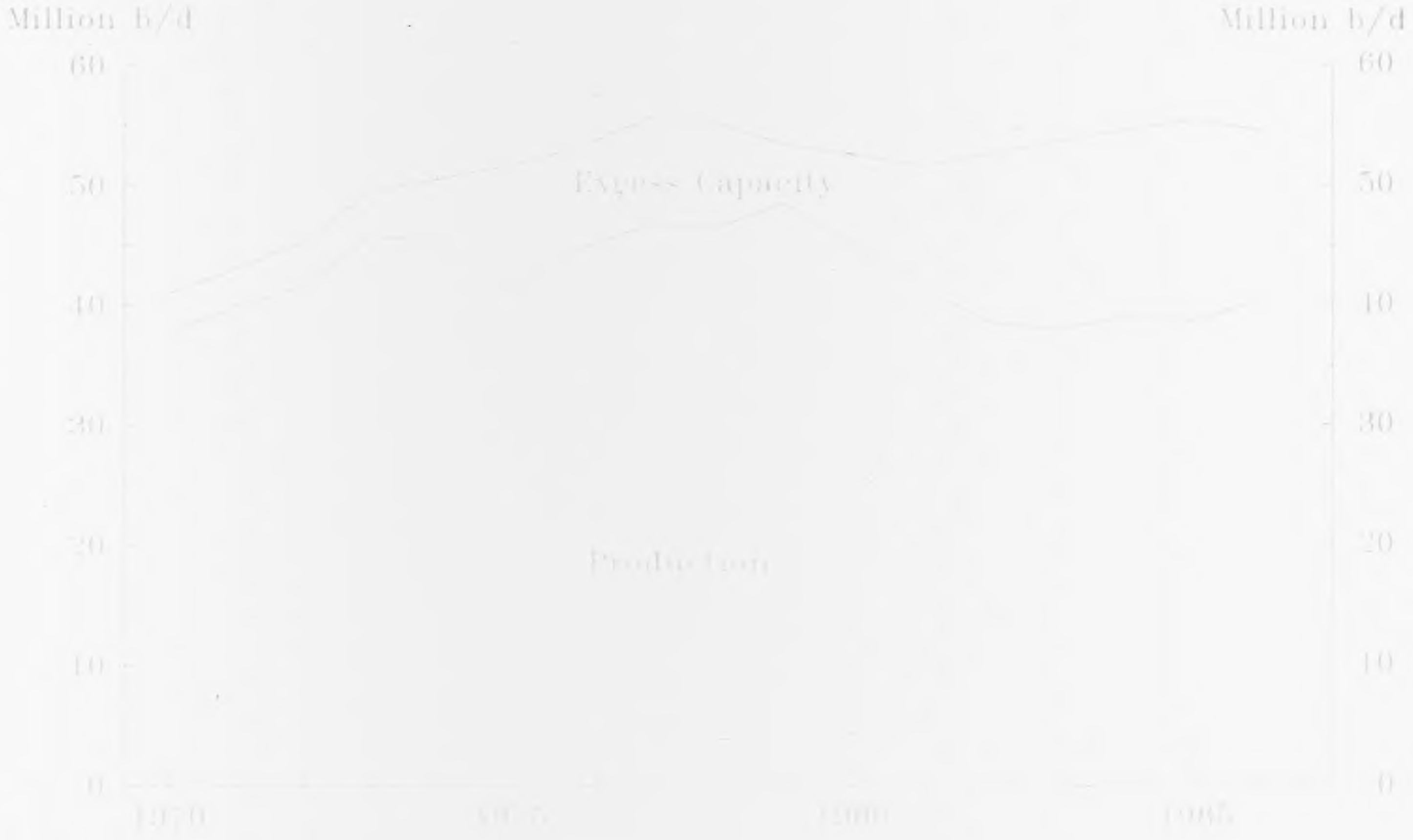
Worldwide Producing Oil Wells

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Algeria *	826	984	826	801	989	970	1,000	1,050	1,085	1,090	1,090	NA	NA
Angola-Cabinda	181	183	171	157	182	176	188	190	205	254	291	298	363
Cameroon	NA	NA	NA	NA	13	29	49	81	95	166	166	173	173
Congo	52	49	86	97	107	113	119	153	179	251	246	272	286
Egypt	437	319	376	401	430	432	484	450	411	500	617	658	666
Gabon *	137	184	212	240	211	218	242	250	266	270	270	297	294
Libya *	979	851	877	797	817	896	886	889	891	905	905	671	661
Nigeria *	1,088	1,052	1,259	1,374	1,322	1,457	1,451	1,491	1,312	1,296	1,177	1,153	1,111
Tunisia	55	60	56	73	76	63	87	92	91	91	131	140	147
Other	22	17	21	16	13	18	16	26	30	37	44	46	137
Africa	3,777	3,699	3,884	3,956	4,160	4,372	4,522	4,672	4,565	4,860	4,937	3,708	3,838
Australia	373	361	378	359	375	370	403	399	435	509	545	746	879
Brunei	+ 519	436	487	527	558	592	578	571	578	649	649	629	710
Burma	595	595	385	407	429	445	445	445	445	445	445	445	445
China, Taiwan	60	80	82	70	66	80	82	77	85	86	78	84	84
India	1,500	1,545	1,548	1,600	1,600	1,600	1,600	1,600	1,560	1,560	1,560	2,201	2,201
Indonesia *	2,710	3,018	3,162	3,421	3,644	3,823	3,700	4,077	4,341	4,840	4,840	5,378	5,124
Japan	1,044	1,009	464	448	542	507	388	382	397	370	348	256	284
Malaysia	NA	68	87	121	154	227	230	217	265	[illegible]	368	370	370
New Zealand	4	3	9	9	10	17	16	16	14	16	27	28	32
Pakistan	16	13	15	17	17	18	19	53	32	38	38	51	55
Thailand	25	13	13	12	12	0	0	0	26	45	84	184	180
Other	15	15	15	15	NA	5	4	6	6	11	10	9	10
Asia-Pacific	6,861	7,156	6,645	7,006	7,407	7,684	7,465	7,843	8,184	8,885	8,992	10,381	10,374
Total Non-Communist	574,075	560,540	582,494	576,850	588,365	582,211	595,460	677,574	702,286	732,958	715,602	747,252	752,948

* Member of the Organization of Petroleum Exporting Countries (OPEC)
+ Brunei includes Malaysia for 1974

Data from Oil & Gas Journal Energy Database
Source: Oil & Gas Journal

Total Non-Communist Excess Productive Capacity



Source DOE

Estimated Installed Productive Capacity
OPEC, Non-OPEC, Non-Communist
Thousands of barrels per day

	OPEC	Non-OPEC	Total Non-Communist
1961	10,150	10,050	20,200
1962	11,350	10,450	21,800
1963	12,450	10,850	23,900
1964	14,050	11,050	25,100
1965	15,500	11,400	26,900
1966	17,050	12,150	29,200
1967	18,200	13,150	31,350
1968	20,300	14,200	34,500
1969	22,600	14,650	37,250
1970	25,300	15,700	41,000
1971	27,400	15,750	43,150
1972	29,300	16,050	45,350
1973	33,500	16,150	49,650
1974	34,800	15,750	50,550
1975	36,100	15,600	51,700
1976	37,400	15,750	53,150
1977	38,700	16,850	55,550
1978	36,480	18,700	55,180
1979	34,260	19,150	53,410
1980	32,730	19,800	52,530
1981	31,200	20,400	51,600
1982	31,200	21,400	52,600
1983	31,200	22,400	53,600
1984	31,200	23,400	54,600
1985	30,000	24,400	54,400
1986	27,000	24,600	51,600

Data from Oil & Gas Journal' Foreign Operations-
Reviews (Dec & Aug issues)

Installed Productive Capacity
OPEC Nations by Country
Thousands of barrels per day

	1983	1984	1985	1986
Algeria	1,200	1,200	1,200	1,200
Ecuador	250	250	300	300
Gabon	250	250	250	250
Indonesia	1,800	1,800	1,800	1,800
Iran	7,000	7,000	7,000	7,000
Iraq	4,000	4,000	4,000	4,000
Kuwait	2,900	2,900	2,900	2,900
Libya	2,500	2,500	2,500	2,500
Neutral Zone	680	680	680	680
Nigeria	2,500	2,500	2,500	2,500
Qatar	650	650	650	650
Saudi Arabia	12,500	12,500	12,500	12,500
United Arab Emirates	2,550	2,550	2,550	2,550
Abu Dhabi	2,150	2,150	2,150	2,150
Dubai	390	390	390	390
Sharjah	10	10	10	10
Venezuela	2,600	2,600	2,600	2,600
Total OPEC	41,380	41,380	41,430	41,430

Data from Oil & Gas Journal Energy Database
Source: Central Intelligence Agency

Reserves

The key determinant of the long term outlook for the oil and gas industry is the level of reserves; crude oil reserves, natural gas reserves, and natural gas liquids reserves. The level of reserves determines the ultimate life of the industry. However, a fact often overlooked is that reserves figures are estimates and that they are based on current technology and economic conditions. The underground structure and hydrocarbon content cannot be precisely measured by observation. Reserves levels are based on the assumptions of experts based on previous experience and understanding of the underground structure. And reserves indicate the life of the industry and level of production based upon existing technology. As technology improves, estimates of usable reserves will likely increase. Reserves data is also dependent upon existing or expected economic conditions. Economic conditions indicate the cost of recovering the reserves compared to alternative sources of energy. As the relative costs change, reserve estimates will also change.

Changes in reserves levels are closely tied to the current level of exploration and production activity. As oil and gas prices have escalated to higher levels in recent years, the quantity of oil and gas economically recoverable has increased. In addition the higher prices have resulted in increased exploration activity and the discovery of additional reserves. Thus, higher prices have added significantly to reserves in both of these ways.

Total worldwide reserves of crude oil and condensate were estimated at 697.5 billion barrels of oil as of January 1, 1987. This is down slightly from the previous year. Worldwide reserves peaked at 715.7 billion barrels in 1975. Estimates of total worldwide reserves were adjusted downward substantially in subsequent years. But the surge in exploration and production activity has resulted in reserves moving upward from a recent low of 642.2 billion barrels in 1980.

Higher prices and increased exploration and drilling activity did not result in any substantial increase in U.S. reserves. But it slowed the decline in domestic reserves. U.S. crude and condensate reserves were estimated at 28.4 billion barrels as of January 1, 1986. Annual estimates of crude oil reserves have varied from 27 billion to 29.8 billion barrels between 1980 and 1986.

The sharp drop in crude prices has shown up in reserve estimates. U.S. reserves fell to an estimated 24.6 billion barrels as of January 1, 1987. Lower prices have made some reserves uneconomic and a lower level of exploration activity has slowed new reserve additions.

This chapter of the Energy Statistics Sourcebook contains a detailed compilation of data on worldwide and domestic reserves of crude oil and natural gas. Data is presented for reserves worldwide by country and geographical area. U.S. reserves changes are shown in addition to year end reserves by state.

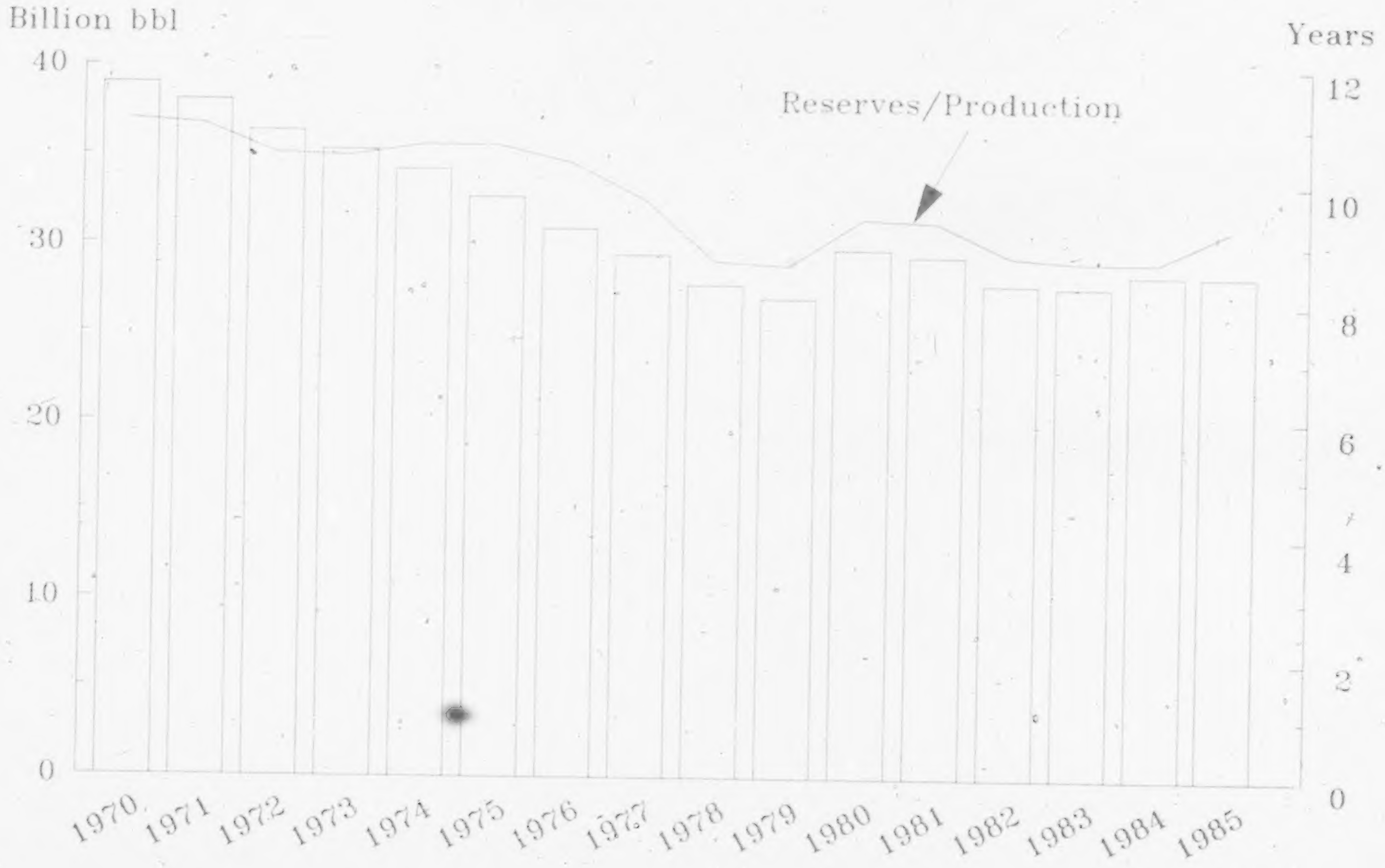
This data enables an analyst to track the worldwide development of the oil and gas industry. It allows for analysis of the shifting importance of individual countries and regions in the current and future oil and gas industry. It also enables an analyst to determine the success or failure of the industry in their exploration efforts.

Reserves

Crude Oil Reserves, Changes & Additions, Total U.S, Annual, 109
Crude Oil Reserves, By State, Annual, 110
Natural Gas Liquids Reserves, Changes & Additions, Total U.S., Annual, 113
Natural Gas Liquids Reserves, By State, Annual, 114
Natural Gas Reserves, Changes & Additions, Total U.S., Annual, 116
Natural Gas Reserves, By State, Annual, 117
Crude Oil Reserves, By Country, Annual, 120
Natural Gas Reserves, By Country, Annual, 130

Reserves and Reserves/Production Ratio

U.S. Crude Oil



Source: API, AGA, EIA

Total U.S. Crude Oil Reserves
Thousands of barrels

	Net Adjustments	Revision Increase	Revision Decrease	Total Revisions & Adjustments	Extensions to Old Reservoirs	New Field Discoveries	New Reservoirs in Old Fields	Total Discoveries	Total Discoveries, Revisions, Adjustments	Production	Reserves at Yearend
1946	NA	NA	NA	1,254,075	1,158,923	NA	244,434	1,403,357	2,658,062	1,726,348	**20,873,560**
1947	NA	NA	NA	749,278	1,269,862	NA	445,430	1,715,292	2,464,570	1,850,445	**21,487,680**
1948	NA	NA	NA	1,958,853	1,439,873	269,438	127,043	1,836,354	3,795,207	2,002,448	**23,280,440**
1949	NA	NA	NA	603,566	1,693,862	544,319	346,098	2,584,279	3,187,845	1,818,800	**24,649,490**
1950	NA	NA	NA	663,378	1,334,391	407,739	157,177	1,899,307	2,562,685	1,943,776	**25,268,400**
1951	NA	NA	NA	1,776,110	2,248,588	205,959	183,297	2,637,844	4,413,954	2,214,321	**27,468,030**
1952	NA	NA	NA	743,729	1,509,131	280,066	216,362	1,810,859	2,749,288	2,256,765	**27,960,550**
1953	NA	NA	NA	1,264,832	1,439,618	344,053	247,627	2,031,298	3,296,130	2,311,856	**28,944,830**
1954	NA	NA	NA	537,788	1,749,443	307,625	278,181	2,335,249	2,873,037	2,257,119	**29,560,750**
1955	NA	NA	NA	696,114	1,697,653	219,824	257,133	2,174,610	2,870,724	2,419,300	**30,012,170**
1956	NA	NA	NA	804,803	1,702,311	234,727	232,495	2,169,533	2,974,336	2,551,857	**30,434,650**
1957	NA	NA	NA	465,421	1,543,182	207,437	208,760	1,959,379	2,424,800	2,559,044	**30,300,400**
1958	NA	NA	NA	954,605	1,338,908	151,210	163,519	1,653,637	2,608,242	2,372,730	**30,535,920**
1959	NA	NA	NA	1,518,678	1,778,705	165,695	203,667	2,148,067	3,666,745	2,483,315	**31,719,350**
1960	NA	NA	NA	787,934	1,323,538	141,296	112,560	1,577,394	2,365,328	2,471,464	**31,613,210**
1961	NA	NA	NA	1,087,092	1,209,101	107,423	253,951	1,570,475	2,657,567	2,512,273	**31,758,500**
1962	NA	NA	NA	759,053	1,041,257	92,488	288,098	1,421,843	2,180,896	2,550,178	**31,389,220**
1963	NA	NA	NA	966,051	858,168	96,732	253,159	1,208,059	2,174,110	2,593,343	**30,969,990**
1964	NA	NA	NA	899,292	1,419,182	125,682	219,611	1,765,475	2,664,767	2,644,247	**30,990,510**
1965	NA	NA	NA	1,783,231	792,901	237,335	234,612	1,264,848	3,018,079	2,686,198	**31,352,390**
1966	NA	NA	NA	1,839,307	814,249	160,384	150,038	1,124,671	2,963,978	2,864,242	**31,452,130**
1967	NA	NA	NA	1,900,969	716,467	125,105	219,581	1,061,153	2,962,122	3,037,579	**31,376,670**
1968	NA	NA	NA	1,320,109	776,780	166,291	191,455	1,134,526	2,454,635	3,124,188	**30,707,120**
1969	NA	NA	NA	1,258,142	614,710	96,435	150,749	861,894	2,120,036	3,195,291	**29,631,860**
1970	NA	NA	NA	2,088,927	631,354	*9,852,512	116,125	10,599,990	12,688,920	3,319,445	**39,001,330**
1971	NA	NA	NA	1,600,426	560,596	91,469	65,241	717,306	2,317,732	3,256,110	**38,062,960**
1972	NA	NA	NA	620,107	459,311	123,210	155,220	737,741	1,557,848	3,281,397	**36,339,410**
1973	NA	NA	NA	1,551,777	390,141	116,097	87,816	594,054	2,145,831	3,185,400	**35,299,840**
1974	NA	NA	NA	1,310,929	368,918	226,163	87,563	682,644	1,993,573	3,043,456	**34,249,960**
1975	NA	NA	NA	677,271	340,128	173,177	127,887	641,192	1,318,463	2,886,292	**32,682,130**
1976	NA	NA	NA	488,659	466,279	67,842	62,511	596,632	1,085,291	2,825,252	**30,942,170**
1977	NA	NA	NA	769,678	365,007	159,950	109,145	634,102	1,403,780	2,859,544	**29,486,400**
1978	NA	NA	NA	707,190	366,589	199,994	73,483	640,066	1,347,256	3,029,898	**27,803,760**
+1979	NA	NA	NA	1,490,618	368,082	239,406	107,567	715,055	2,205,673	2,958,144	**27,051,290**
+1980	219,000	2,883,000	994,000	2,108,000	572,000	147,000	143,000	862,000	2,970,000	2,975,000	**29,805,000**
1981	138,000	2,151,000	880,000	1,409,000	750,000	157,000	254,000	1,161,000	2,570,000	2,949,000	**29,426,000**
1982	83,000	2,245,000	1,811,000	351,000	634,000	193,000	204,000	1,031,000	1,382,000	2,950,000	**27,858,000**
1983	462,000	2,810,000	1,299,000	1,973,000	629,000	105,000	190,000	924,000	2,897,000	3,020,000	**27,735,000**
1984	159,000	3,672,000	1,227,000	2,604,000	744,000	242,000	158,000	1,144,000	3,748,000	3,037,000	**28,446,000**
1985	429,000	3,037,000	1,439,000	2,027,000	742,000	84,000	169,000	995,000	3,022,000	3,052,000	**28,416,000**

* Prudhoe Bay was added to reserves in 1970.

+ API data ends in 1979; EIA data begins in 1980. Some discontinuity exists.

Data from Oil & Gas Journal Energy Database.
Source: American Petroleum Institute, Energy Information Administration

U.S. Crude Oil Reserves
By State
Thousands of barrels

	1967	1968	1969	1970	1971	1972	1973
Alabama	78,813	72,730	67,126	65,262	61,478	56,734	53,603
Alaska	380,833	373,185	432,300	10,148,824	10,116,195	10,096,282	10,112,213
Arkansas	176,429	159,283	127,346	129,577	117,648	113,100	105,552
California*	4,369,370	4,340,749	4,242,730	3,983,986	3,705,750	3,553,735	3,488,100
Coastal Region*	526,089	579,575	649,172	608,386	543,772	513,322	536,284
Los Angeles Basin*	1,861,975	1,777,719	1,640,520	1,465,607	1,344,017	1,282,046	1,197,868
San Joaquin	1,981,306	1,983,455	1,953,038	1,909,993	1,817,961	1,758,365	1,753,948
Colorado	339,852	420,473	400,604	389,048	332,773	326,411	304,790
Florida	NA	NA	NA	74,781	204,122	208,149	183,859
Illinois	335,508	313,780	272,115	228,680	208,763	174,883	152,343
Indiana	47,158	40,247	41,307	37,009	30,855	29,383	26,622
Kansas	625,121	600,842	566,013	539,305	501,552	453,394	401,089
Kentucky	94,337	79,477	73,103	61,377	52,548	48,193	39,980
Louisiana*	5,455,946	5,608,156	5,689,150	5,710,320	5,399,000	5,028,478	4,576,826
North	393,038	360,595	333,184	311,727	306,918	281,451	252,388
South*	5,062,908	5,247,561	5,355,966	5,398,593	5,092,082	4,747,027	4,324,438
Michigan	62,535	55,262	51,517	45,615	58,765	62,002	72,444
Mississippi	356,686	325,649	360,198	354,741	342,368	312,458	291,049
Montana	307,972	345,117	275,765	241,529	228,185	241,248	219,343
Nebraska	63,163	55,328	46,835	40,943	36,124	30,553	28,166
New Mexico	925,816	864,684	839,927	760,921	656,885	582,593	642,994
East	888,061	833,983	811,297	738,382	634,324	558,347	619,134
West	37,755	30,701	28,630	22,539	22,561	24,246	23,860
North Dakota	290,272	287,366	234,504	192,377	174,011	166,033	179,520
Ohio	114,211	132,270	127,367	127,912	129,144	127,385	124,911
Oklahoma	1,458,948	1,394,653	1,389,983	1,351,353	1,404,608	1,303,004	1,270,964
Pennsylvania	63,289	59,188	54,740	51,286	47,052	37,345	39,613
South Dakota	NA	NA	NA	NA	NA	NA	NA
Tennessee	NA	NA	NA	NA	NA	NA	NA
Texas*	14,494,109	13,809,906	13,063,182	13,195,476	13,028,529	12,144,057	11,756,613
District 1	159,435	149,873	157,166	153,325	157,078	147,324	144,149
District 2*	966,419	910,201	886,483	844,961	785,638	636,768	677,125
District 3*	2,045,281	1,935,865	1,834,428	1,685,995	1,638,611	1,536,426	1,489,428
District 4*	691,578	639,195	563,865	528,403	415,664	343,752	304,422
District 5	155,030	148,560	134,866	128,102	118,305	98,963	126,462
District 6	2,764,640	2,679,932	2,590,282	2,497,771	2,359,624	2,208,438	2,049,248
District 7B	263,884	240,742	242,444	238,803	209,473	235,962	235,870
District 7C	382,133	361,182	348,353	298,519	251,304	239,270	204,996
District 8	3,629,496	3,393,831	3,168,582	3,106,879	3,528,994	3,402,358	3,205,538
District 8A	2,728,129	2,725,493	2,566,178	3,130,328	3,002,588	2,793,503	2,785,308
District 9	432,614	366,246	335,567	363,458	356,007	324,018	363,708
District 10	275,470	258,785	234,968	217,932	200,246	177,275	170,359
Utah	201,046	180,039	195,290	181,512	165,806	244,397	264,512
West Virginia	56,217	53,568	53481	53,221	51,731	34,040	32,126
Wyoming	1,043,519	1,101,288	996,550	1,017,359	996,985	949,779	916,763
Others	20,942	20,831	18,938	8,371	7,308	6,526	7,556
Total U.S.	31,376,670	30,707,117	29,631,862	39,001,332	38,062,956	36,339,408	35,299,836

U.S. Crude Oil Reserves
By State
Thousands of barrels

	1974	1975	1976	1977	1978	1979
Alabama	68,718	61,032	53,341	44,174	33,107	28,342
Alaska	10,094,099	10,037,262	9,785,675	9,616,111	9,247,356	8,923,975
Arkansas	106,336	95,662	93,439	86,111	94,038	107,230
California*	3,557,036	3,647,537	3,589,937	3,631,851	3,471,301	3,644,686
Coastal Region*	627,221	637,615	600,231	634,038	601,756	645,984
Los Angeles Basin*	1,113,260	1,137,708	1,056,125	949,304	879,222	912,940
San Joaquin	1,816,555	1,872,214	1,933,581	2,048,509	1,990,323	2,085,852
Colorado	289,333	276,066	251,783	241,910	198,012	152,060
Florida	302,709	262,539	249,560	208,749	169,361	122,710
Illinois	159,789	160,986	155,318	149,959	137,927	132,908
Indiana	24,351	22,029	22,256	25,783	26,515	25,495
Kansas	395,107	364,394	361,570	359,434	350,367	344,778
Kentucky	36,572	39,306	38,188	35,336	31,833	30,739
Louisiana	4,226,514	3,827,187	3,470,628	3,113,409	2,893,401	2,555,121
North	273,948	253,911	236,927	215,955	208,742	182,955
South*	3,952,566	3,573,276	3,233,701	2,897,454	2,684,659	2,372,166
Michigan	82,299	93,312	138,788	133,228	190,164	176,305
Mississippi	261,408	231,158	214,196	202,632	187,587	168,881
Montana	207,389	163,968	152,670	151,601	140,466	136,590
Nebraska	26,779	28,372	31,307	31,010	29,291	30,117
New Mexico	624,968	588,110	535,519	490,508	485,640	461,713
East	597,761	563,295	514,121	471,728	468,814	446,540
West	27,207	24,815	21,398	18,780	16,826	15,173
North Dakota	172,794	158,245	149,629	150,191	161,213	175,195
Ohio	123,871	121,263	125,268	129,148	131,194	137,718
Oklahoma	1,232,377	1,239,687	1,186,553	1,121,430	1,073,469	1,005,332
Pennsylvania	50,414	48,028	50,563	49,334	48,156	50,846
South Dakota	2,161	1,855	1,504	2,291	2,738	2,947
Tennessee	1,618	1,508	1,910	2,536	2,489	2,605
Texas*	11,001,506	10,080,035	9,226,250	8,467,436	7,689,991	7,636,084
District 1	133,389	126,457	138,510	119,477	110,258	96,943
District 2*	622,886	563,204	502,109	435,915	382,189	352,623
District 3*	1,352,103	1,244,579	1,025,889	895,862	745,558	669,185
District 4*	237,192	193,370	158,803	144,681	122,586	117,220
District 5	110,892	91,267	77,310	63,354	54,323	45,092
District 6	1,913,658	1,773,893	1,743,103	1,620,354	1,512,934	1,267,227
District 7B	250,387	227,772	204,514	201,244	188,922	169,269
District 7C	199,587	185,234	183,120	173,681	166,334	165,646
District 8	3,064,516	2,922,387	2,710,058	2,560,106	2,389,899	2,272,401
District 8A	2,578,203	2,292,651	2,067,714	1,894,063	1,694,063	2,116,928
District 9	369,822	304,510	268,445	226,056	187,714	211,858
District 10	168,871	154,711	146,675	132,643	135,211	151,692
Utah	250,648	208,318	183,176	182,147	155,371	144,342
West Virginia	32,210	31,418	30,009	28,686	29,675	27,922
Wyoming	903,360	877,385	827,769	815,578	804,567	808,765
Others	8,471	5,441	6,192	6,720	9,535	8,242
Total U.S.	34,249,956	32,682,126	30,942,166	29,486,402	27,803,760	27,051,288

* Includes adjacent offshore state and federal waters.

Data from Oil & Gas Journal Energy Database
Source: American Petroleum Institute, American Gas Association

U.S. Crude Oil Reserves
By State
Thousands of barrels

	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	74,000	45,000	54,000	55,000	54,000	51,000	68,000	69,000
Alaska	9,384,000	8,875,000	8,751,000	8,283,000	7,406,000	7,307,000	7,563,000	7,056,000
Arkansas	111,000	107,000	107,000	113,000	107,000	120,000	114,000	97,000
California	4,974,000	5,265,000	5,470,000	5,441,000	5,405,000	5,348,000	5,707,000	5,801,000
Coastal Region Land*	602,000	578,000	652,000	621,000	580,000	559,000	628,000	631,000
Los Angeles Basin Land*	493,000	513,000	454,000	412,000	370,000	343,000	373,000	420,000
San Joaquin Land	3,099,000	3,294,000	3,360,000	3,225,000	3,081,000	3,032,000	3,197,000	3,258,000
State and Federal Offshore	780,000	880,000	1,004,000	1,183,000	1,374,000	1,414,000	1,509,000	1,492,000
Colorado	194,000	159,000	183,000	147,000	169,000	186,000	198,000	198,000
Florida	168,000	128,000	134,000	109,000	97,000	78,000	82,000	77,000
Illinois	158,000	136,000	113,000	129,000	150,000	135,000	153,000	136,000
Indiana	29,000	40,000	23,000	23,000	28,000	34,000	33,000	35,000
Kansas	303,000	377,000	310,000	371,000	378,000	344,000	377,000	423,000
Kentucky	40,000	25,000	35,000	29,000	36,000	35,000	41,000	42,000
Louisiana	3,448,000	2,780,000	2,751,000	2,985,000	2,728,000	2,707,000	2,661,000	2,642,000
North	255,000	216,000	248,000	317,000	240,000	223,000	165,000	196,000
South Land*	1,2[illegible]2,000	682,000	682,000	642,000	611,000	569,000	585,000	565,000
State and Federal Offshore	1,951,000	1,882,000	1,642,000	1,864,000	1,877,000	1,915,000	1,911,000	1,881,000
Michigan	220,000	159,000	205,000	240,000	184,000	209,000	180,000	191,000
Mississippi	250,000	238,000	202,000	209,000	223,000	205,000	201,000	184,000
Montana	158,000	152,000	179,000	186,000	216,000	234,000	224,000	232,000
Nebraska	30,000	25,000	46,000	41,000	32,000	44,000	46,000	42,000
New Mexico	579,000	563,000	547,000	555,000	563,000	576,000	660,000	688,000
East	554,000	542,000	518,000	522,000	537,000	542,000	625,000	643,000
West	25,000	21,000	29,000	33,000	26,000	34,000	35,000	45,000
North Dakota	162,000	211,000	214,000	223,000	237,000	258,000	260,000	255,000
Ohio	69,000	82,000	116,000	112,000	111,000	130,000	116,000	79,000
Oklahoma	979,000	1,014,000	930,000	950,000	971,000	931,000	940,000	935,000
Pennsylvania	27,000	33,000	35,000	32,000	37,000	41,000	40,000	38,000
Texas	8,911,000	8,284,000	8,206,000	8,093,000	7,616,000	7,539,000	7,557,000	7,894,000
District 1	111,000	110,000	150,000	127,000	129,000	165,000	173,000	177,000
District 2*	334,000	292,000	252,000	229,000	206,000	192,000	192,000	168,000
District 3*	794,000	630,000	581,000	552,000	509,000	517,000	522,000	471,000
District 4*	123,000	113,000	96,000	97,000	87,000	96,000	99,000	98,000
District 5	68,000	55,000	52,000	49,000	45,000	42,000	36,000	59,000
District 6	1,444,000	1,177,000	1,115,000	1,040,000	947,000	918,000	889,000	851,000
District 7B	190,000	208,000	196,000	254,000	199,000	217,000	218,000	239,000
District 7C	202,000	206,000	207,000	230,000	229,000	228,000	240,000	243,000
District 8	2,795,000	2,686,000	2,597,000	2,503,000	2,312,000	2,350,000	2,342,000	2,333,000
District 8A	2,439,000	2,371,000	2,504,000	2,538,000	2,481,000	2,366,000	2,413,000	2,711,000
District 9	190,000	200,000	218,000	225,000	219,000	220,000	214,000	285,000
District 10	90,000	97,000	89,000	107,000	112,000	105,000	108,000	140,000
Offshore	131,000	139,000	149,000	142,000	141,000	123,000	111,000	119,000
Utah	188,000	201,000	198,000	190,000	173,000	187,000	172,000	276,000
West Virginia	30,000	48,000	30,000	30,000	48,000	49,000	76,000	40,000
Wyoming	845,000	841,000	928,000	840,000	856,000	957,000	954,000	951,000
Others	24,000	22,000	38,000	40,000	33,000	30,000	23,000	35,000
Total U.S.	**31,355,000**	**29,810,000**	**29,805,000**	**29,426,000**	**27,858,000**	**27,735,000**	**28,446,000**	**28,416,000**

* Excludes adjacent offshore state and federal waters which were included in the previous data series on reserves from API/AGA.

Data from Oil & Gas Journal Energy Database
Source: Energy Information Administration

Total U.S. Natural Gas Liquids Reserves
Thousands of barrels

	Net Adjustments	Revision Increase	Revision Decrease	Total Revisions & Adjustments	Extensions to Old Reservoirs	New Field Discoveries	New Reservoirs in Old Fields	Total Discoveries	Total Discoveries, Revisions, Adjustments	Production	**Reserves at Yearend**
1966	NA	NA	NA	634,233	131,583	53,378	74,922	259,883	894,116	588,684	**8,328,966**
1967	NA	NA	NA	671,112	159,725	57,272	41,649	258,646	929,758	644,493	**8,614,231**
1968	NA	NA	NA	469,689	155,940	26,642	33,388	215,970	685,659	701,782	**8,598,108**
1969	NA	NA	NA	106,192	106,815	26,831	41,190	174,836	281,028	735,962	**8,143,174**
1970	NA	NA	NA	35,446	103,740	34,234	134,159	272,133	307,579	747,812	**7,702,941**
1971	NA	NA	NA	135,144	93,909	28,513	90,154	212,576	347,720	746,434	**7,304,227**
1972	NA	NA	NA	38,796	112,537	32,652	54,288	249,487	238,273	755,941	**6,786,559**
1973	NA	NA	NA	231,460	121,835	19,202	36,482	177,519	408,979	740,831	**6,454,707**
1974	NA	NA	NA	393,484	149,996	36,035	40,266	226,357	619,841	724,099	**6,350,449**
1975	NA	NA	NA	345,496	116,810	128,036	28,162	273,008	618,504	701,123	**6,267,830**
1976	NA	NA	NA	614,356	158,572	20,460	41,378	220,410	834,766	700,629	**6,401,967**
1977	NA	NA	NA	78,043	152,535	24,950	35,643	213,128	291,171	698,773	**5,994,365**
1978	NA	NA	NA	365,813	153,181	31,427	45,245	229,853	595,666	664,179	**5,925,852**
*1979	NA	NA	NA	141,727	166,769	38,437	42,872	248,078	389,805	660,334	**5,655,323**
*1980	153,000	743,000	639,000	257,000	418,000	90,000	79,000	587,000	844,000	731,000	**6,728,000**
1981	231,000	729,000	643,000	317,000	542,000	131,000	91,000	764,000	1,081,000	741,000	**7,068,000**
1982	299,000	811,000	832,000	278,000	375,000	112,000	109,000	596,000	874,000	721,000	**7,221,000**
1983	849,000	847,000	781,000	915,000	321,000	70,000	99,000	490,000	1,405,000	725,000	**7,901,000**
1984	(123,000)	866,000	724,000	19,000	348,000	55,000	96,000	499,000	518,000	776,000	**7,643,000**
1985	126,000	906,000	744,000	588,000	337,000	44,000	85,000	466,000	1,054,000	753,000	**7,944,000**

* API data ends in 1979; EID data begins in 1980. Some discontinuity exists.

Data from Oil & Gas Journal Energy Database
Source: American Petroleum Institute, Energy Information Administration

U.S. Natural Gas Liquids Reserves
By State
Thousands of barrels

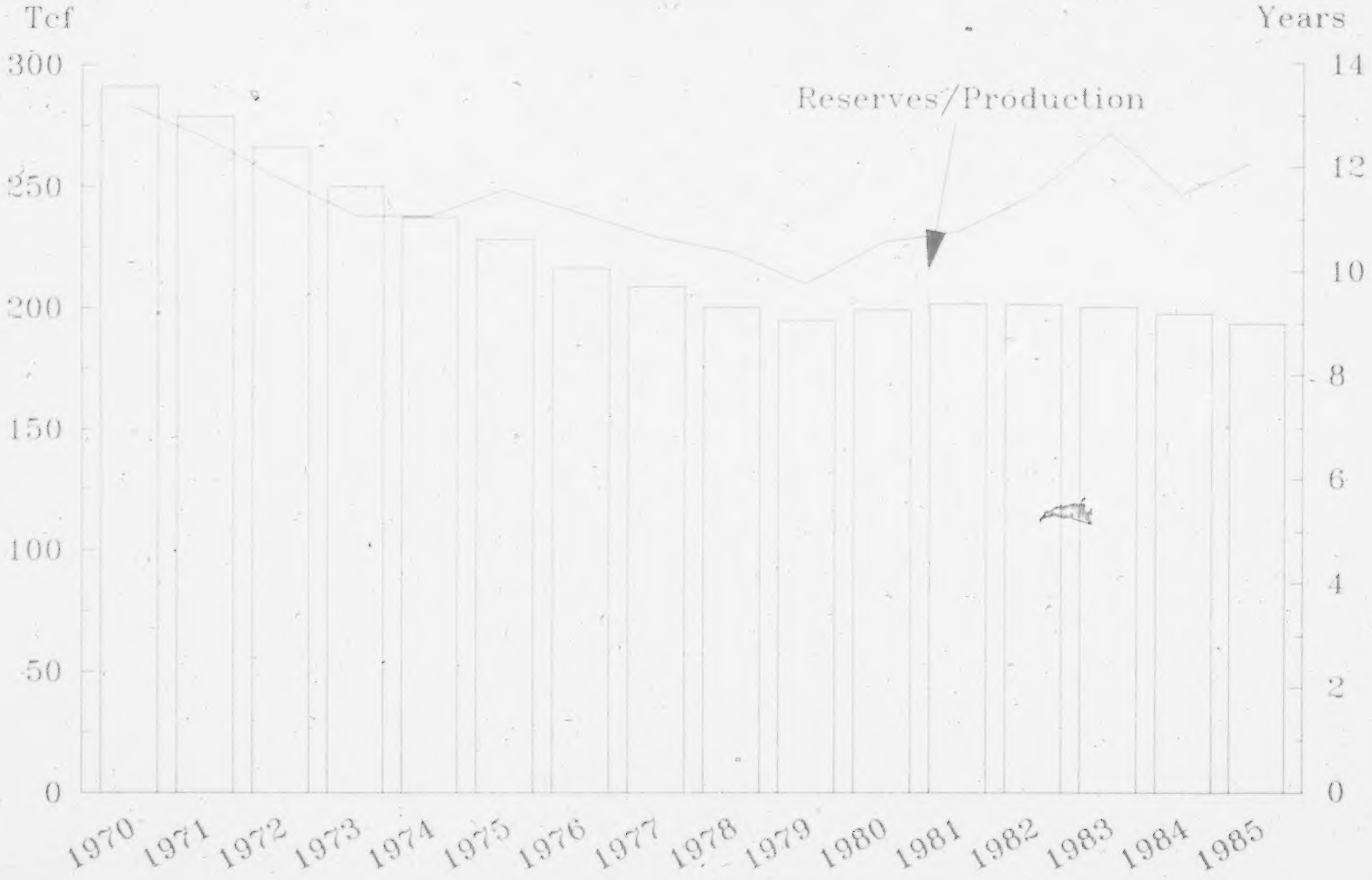
	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	172,000	213,000	226,000	192,000	193,000	216,000	200,000	182,000
Alaska	23,000	23,000	11,000	10,000	9,000	8,000	19,000	383,000
Arkansas	16,000	17,000	16,000	16,000	15,000	11,000	12,000	11,000
California	112,000	111,000	120,000	82,000	154,000	151,000	141,000	158,000
Central Region Land	23,000	22,000	23,000	14,000	16,000	17,000	15,000	16,000
Los Angeles Basin Land	11,000	10,000	15,000	[illegible]	6,000	6,000	5,000	6,000
San Joaquin Land	76,000	77,000	81,000	57,000	124,000	117,000	105,000	120,000
State and Federal Offshore	2,000	2,000	1,000	5,000	8,000	11,000	16,000	16,000
Colorado	160,000	177,000	194,000	204,000	186,000	183,000	155,000	173,000
Florida	24,000	21,000	27,000	NA	17,000	11,000	17,000	17,000
Kansas	420,000	402,000	389,000	409,000	302,000	443,000	424,000	373,000
Kentucky	26,000	26,000	25,000	25,000	35,000	31,000	24,000	27,000
Louisiana	1,610,000	1,424,000	1,346,000	1,327,000	1,295,000	1,332,000	1,188,000	1,156,000
North	105,000	96,000	95,000	99,000	85,000	74,000	57,000	65,000
South Land	823,000	676,000	540,000	544,000	501,000	527,000	454,000	442,000
State and Federal Offshore	682,000	652,000	711,000	684,000	709,000	731,000	677,000	649,000
Michigan	116,000	112,000	112,000	102,000	97,000	105,000	84,000	67,000
Mississippi	18,000	16,000	20,000	18,000	18,000	19,000	15,000	12,000
Montana	12,000	10,000	16,000	11,000	18,000	19,000	18,000	21,000
New Mexico	486,000	530,000	541,000	560,000	531,000	551,000	511,000	445,000
East	209,000	209,000	209,000	214,000	209,000	232,000	221,000	209,000
West	277,000	321,000	332,000	346,000	322,000	319,000	290,000	236,000
North Dakota	36,000	47,000	61,000	68,000	71,000	69,000	73,000	74,000
Oklahoma	596,000	583,000	604,000	631,000	745,000	829,000	769,000	826,000
Pennsylvania	1,000	1,000	* NA	* NA	* NA	* NA	* NA	* NA
Texas	2,563,000	2,482,000	2,452,000	2,646,000	2,771,000	3,038,000	3,048,000	2,981,000
District 1	26,000	23,000	24,000	26,000	29,000	43,000	39,000	40,000
District 2	69,000	64,000	64,000	88,000	75,000	99,000	103,000	100,000
District 3	247,000	231,000	216,000	230,000	265,000	285,000	270,000	260,000
District 4	263,000	248,000	252,000	260,000	289,000	292,000	295,000	269,000
District 5	34,000	34,000	44,000	49,000	53,000	73,000	74,000	77,000
District 6	261,000	272,000	321,000	308,000	278,000	342,000	298,000	293,000
District 7B	66,000	64,000	85,000	102,000	105,000	133,000	106,000	104,000
District 7C	168,000	182,000	135,000	186,000	199,000	219,000	233,000	256,000
District 8	556,000	505,000	498,000	537,000	588,000	681,000	691,000	665,000
District 8A	381,000	351,000	290,000	335,000	296,000	262,000	282,000	283,000
District 9	73,000	79,000	92,000	86,000	119,000	121,000	119,000	111,000
District 10	381,000	375,000	369,000	364,000	391,000	413,000	440,000	433,000
Offshore	38,000	54,000	62,000	75,000	84,000	75,000	98,000	90,000
Utah	53,000	59,000	127,000	277,000	NA	NA	NA	NA
West Virginia	72,000	74,000	97,000	85,000	79,000	91,000	80,000	86,000
Wyoming	254,000	285,000	341,000	384,000	+ 681,000	+ 789,000	+ 860,000	+ 949,000
Other	2,000	2,000	3,000	21,000	4,000	5,000	5,000	3,000
Total U.S.	**6,772,000**	**6,615,000**	**6,728,000**	**7,068,000**	**7,221,000**	**7,901,000**	**7,643,000**	**7,944,000**

* Included in other
+ Includes Utah.

Data from Oil & Gas Journal Energy Database
Source: Energy Information Administration

Reserves and Reserves/Production Ratio

U.S. Natural Gas



Source: API, AGA, EIA

Total U.S. Natural Gas Reserves
Millions of cubic feet

	Net Adjustments	Revision Increases	Revision Decreases	Total Revisions & Adjustments	Extensions to Old Reservoirs	New Field Discoveries	New Reservoirs Old Fields	Total Discoveries	Total Revisions, Discoveries, Adjustments	Production	Reserves at Yearend
1966	NA	NA	NA	4,937,962	9,224,745	2,947,329	3,110,396	15,282,470	20,220,430	17,491,070	**289,332,800**
1967	NA	NA	NA	6,570,578	9,538,584	3,170,520	2,524,651	15,233,760	21,804,330	18,380,840	**292,907,700**
1968	NA	NA	NA	3,016,146	7,758,821	1,376,429	1,545,612	10,680,860	13,697,010	19,373,430	**287,349,800**
1969	NA	NA	NA	-1,238,261	5,800,489	1,769,557	2,043,219	9,613,265	8,375,004	20,723,190	**275,108,800**
1970	NA	NA	NA	-99,721	6,158,168	27,770,220	3,367,689	37,296,080	37,196,360	21,960,800	**290,746,400**
1971	NA	NA	NA	-1,227,400	6,374,706	1,317,574	3,360,541	11,052,820	9,825,421	22,076,510	**278,805,600**
1972	NA	NA	NA	-1,077,791	6,153,683	1,462,539	3,096,132	10,712,350	9,634,563	22,511,900	**266,084,800**
1973	NA	NA	NA	-3,474,756	6,177,286	2,152,151	1,970,368	10,299,810	6,825,049	22,605,410	**249,950,200**
1974	NA	NA	NA	-1,333,285	5,847,251	2,013,745	2,151,473	10,012,470	8,679,184	21,318,470	**237,132,500**
1975	NA	NA	NA	383,449	6,027,433	2,423,382	1,649,424	10,100,240	10,483,690	19,718,570	**228,200,200**
1976	NA	NA	NA	-1,197,119	5,337,707	1,421,013	1,993,867	8,752,587	7,555,468	19,542,020	**216,026,100**
1977	NA	NA	NA	983,551	6,601,229	2,114,505	2,152,639	10,868,370	11,851,920	19,447,050	**208,877,900**
1978	NA	NA	NA	118,436	6,733,441	1,719,938	2,014,329	10,467,710	10,586,140	19,311,050	**200,301,700**
*1979	NA	NA	NA	2,907,551	7,113,113	2,575,779	1,689,504	11,378,400	14,285,950	19,910,350	**194,916,600**
*1980	1,201,000	16,972,000	15,923,000	2,250,000	9,357,000	2,539,000	2,577,000	14,473,000	16,723,000	18,699,000	**199,021,000**
1981	1,627,000	16,412,000	13,813,000	4,226,000	10,491,000	3,731,000	2,998,000	17,220,000	21,446,000	18,737,000	**201,730,000**
1982	2,378,000	19,795,000	19,340,000	2,833,000	8,349,000	2,687,000	3,419,000	14,455,000	17,288,000	17,506,000	**201,512,000**
1983	3,090,000	17,602,000	17,617,000	3,075,000	6,909,000	1,574,000	2,965,000	11,448,000	14,523,000	15,788,000	**200,247,000**
1984	-2,241,000	17,841,000	14,712,000	888,000	8,299,000	2,536,000	2,686,000	13,521,000	14,409,000	17,193,000	**197,463,000**
1985	-1,708,000	18,775,000	16,304,000	763,000	7,169,000	999,000	2,960,000	11,128,000	11,891,000	15,985,000	**193,369,000**

* API data ends 1979; EIA data begins 1980. Some discontinuity exists.

Data from Oil & Gas Journal Energy Database.
Source: American Petrolum Institute, Energy Information Administration

U.S. Natural Gas Reserves
By State
Millions of Cubic Feet

	1967	1968	1969	1970	1971	1972	1973
Alabama	NA	NA	56,724	162,009	180,508	245,714	327,375
Alaska	3,635,254	5,252,324	5,202,143	31,130,750	31,365,341	31,455,443	31,642,626
Arkansas	2,811,251	2,715,065	2,632,773	2,580,674	2,430,115	2,455,877	2,269,353
California*	7,723,797	7,316,329	6,870,946	6,299,759	5,729,499	5,328,862	5,199,837
Coastal Region*	1,088,824	1,019,859	986,460	966,222	832,743	761,580	684,922
Los Angeles Basin*	913,790	835,102	764,662	654,471	560,624	493,340	439,008
San Joaquin Basin	5,721,183	5,461,368	5,119,824	4,679,066	4,336,132	4,073,942	4,075,907
Colorado	1,769,263	1,660,103	1,596,286	1,628,846	1,818,323	1,655,200	1,868,299
Florida	NA	NA	NA	NA	178,659	180,629	148,914
Illinois	258,604	297,908	337,812	415,414	498,953	545,361	380,525
Indiana	74,781	75,458	77,561	82,674	86,678	87,324	66,682
Kansas	15,283,657	14,511,173	14,125,125	13,325,091	12,535,198	11,938,716	11,722,395
Kentucky	953,983	923,289	920,520	977,842	956,292	938,082	864,921
Louisiana*	86,290,009	88,015,624	85,056,639	82,956,688	78,625,854	74,971,334	69,151,608
North	4,866,490	4,622,735	4,287,202	3,863,479	3,657,209	3,320,328	2,976,133
South*	81,423,519	83,392,889	80,769,432	79,093,208	74,968,645	71,651,006	66,175,480
Michigan	760,912	757,426	750,964	939,671	1,016,482	1,296,815	1,548,508
Mississippi	1,597,007	1,434,078	1,410,898	1,333,905	1,117,432	1,104,336	1,178,218
Montana	837,718	911,533	1,110,208	1,099,923	1,024,561	1,064,036	1,092,449
Nebraska	63,792	56,768	56,594	58,168	59,433	50,260	48,816
New Mexico	15,092,465	15,143,204	14,281,503	13,290,023	13,067,954	12,335,647	12,488,363
East	5,061,776	5,588,844	5,206,938	4,640,020	4,499,921	4,174,773	4,502,977
West	10,030,689	9,554,360	9,074,565	8,650,003	8,568,033	8,160,874	7,985,386
New York	121,086	124,087	120,540	125,961	139,092	139,184	136,842
North Dakota	882,132	866,810	648,564	567,354	503,683	441,625	448,184
Ohio	762,731	783,875	809,293	993,458	1,068,372	1,146,677	1,179,391
Oklahoma	19,403,806	18,368,265	17,593,196	16,954,266	15,712,818	14,492,030	14,098,735
Pennsylvania	1,392,170	1,344,996	1,303,907	1,377,502	1,395,931	1,406,948	1,494,381
Texas*	125,415,064	119,001,106	112,392,622	106,352,993	101,472,104	95,042,043	84,936,502
District 1	2,429,936	2,245,944	2,127,201	1,954,567	1,843,711	1,620,405	1,473,201
District 2*	11,739,786	10,774,613	10,445,403	10,060,030	9,811,922	9,496,136	8,449,920
District 3*	26,946,816	25,529,462	23,751,987	22,813,726	22,115,227	20,696,874	18,526,171
District 4*	32,905,785	32,370,346	31,215,625	29,287,231	27,073,438	24,334,110	19,416,215
District 5	1,451,981	1,347,687	1,428,567	1,393,484	1,260,652	1,171,395	1,149,781
District 6	6,519,607	6,339,422	5,997,201	5,830,740	5,736,503	5,710,441	5,432,193
District 7B	747,870	774,066	786,257	752,131	627,582	663,560	652,076
District 7C	3,894,530	3,917,013	3,766,150	3,602,966	3,074,154	2,581,980	2,430,873
District 8	19,458,263	18,438,065	17,217,339	16,104,203	15,887,502	15,481,337	14,796,454
District 8A	3,454,504	3,245,675	3,001,185	2,596,621	2,533,463	2,366,951	2,121,505
District 9	2,695,677	2,243,361	1,925,141	1,864,447	1,683,171	1,559,594	1,502,193
District 10	13,170,309	11,775,452	10,730,566	10,092,846	9,824,783	9,359,260	8,985,920
Utah	1,226,517	1,156,556	1,090,768	1,065,160	981,954	1,022,110	1,024,723
Virginia	37,798	34,341	31,438	32,511	31,075	35,921	37,273
West Virginia	2,579,986	2,585,581	2,447,324	2,436,378	2,411,784	2,345,957	2,319,828
Wyoming	3,685,459	3,768,535	3,937,045	4,243,331	4,131,492	4,088,728	4,109,523
Other	248,461	245,418	247,441	316,055	266,027	269,987	165,931
Total U.S.	292,907,703	287,349,852	275,108,835	290,746,408	278,805,618	266,084,846	249,950,207

U.S. Natural Gas Reserves
By State
Millions of Cubic Feet

	1974	1975	1976	1977	1978	1979
Alabama	507,370	770,981	707,153	745,538	751,219	933,152
Alaska	31,866,612	32,050,749	31,929,552	31,832,616	31,612,295	31,940,448
Arkansas	2,113,404	1,993,273	1,728,271	1,680,336	1,627,064	1,630,564
California*	5,194,592	5,484,027	5,342,031	5,198,348	5,095,082	5,044,465
Coastal Region*	836,055	743,166	755,830	790,316	848,070	903,196
Los Angeles Basin*	399,753	362,705	340,508	317,202	301,049	261,662
San Joaquin Basin	3,958,784	4,378,156	4,245,693	4,090,830	3,945,963	3,879,607
Colorado	1,881,695	1,893,017	1,887,785	2,025,987	1,965,765	2,043,081
Florida	308,866	266,904	257,502	215,323	160,296	108,629
Illinois	399,414	380,804	376,876	417,783	420,437	471,191
Indiana	64,141	59,839	45,401	53,249	56,710	52,449
Kansas	11,704,731	12,661,181	11,950,564	11,926,191	12,287,341	12,515,773
Kentucky	844,002	812,630	771,544	745,046	718,929	698,963
Louisiana*	64,052,445	61,309,423	57,501,756	52,685,970	49,674,148	45,554,325
North	2,836,554	2,629,673	2,508,892	2,305,547	2,379,165	2,382,024
South*	61,215,891	58,679,750	54,992,864	50,380,423	47,294,983	43,172,301
Michigan	1,458,254	1,606,749	1,598,146	1,791,200	1,768,581	1,797,923
Mississippi	1,079,420	1,207,627	1,061,314	1,307,133	1,410,514	1,429,360
Montana	901,260	929,986	1,106,270	1,043,982	991,668	1,036,091
Nebraska	54,609	55,818	59,158	68,122	72,839	85,002
New Mexico	11,944,902	11,759,294	11,916,617	11,931,112	13,261,489	13,460,738
East	4,327,505	3,980,840	3,921,228	3,864,847	3,615,023	3,612,335
West	7,617,397	7,778,454	7,995,389	8,066,265	9,646,466	9,848,403
New York	165,546	215,843	236,029	247,303	262,711	282,520
North Dakota	432,682	416,848	405,944	392,066	411,485	489,347
Ohio	1,308,210	1,354,010	1,350,581	1,459,430	1,560,478	1,709,082
Oklahoma	13,390,312	13,083,028	12,435,333	11,712,342	11,463,291	11,191,008
Pennsylvania	1,492,145	1,682,460	1,651,898	1,884,932	2,093,516	2,251,312
Texas*	78,540,712	71,036,854	64,651,410	62,157,836	54,600,235	51,610,771
District 1	1,419,873	1,363,529	1,164,851	1,108,409	1,067,071	1,046,246
District 2*	7,386,745	6,186,901	6,295,697	5,901,603	4,326,275	4,181,497
District 3*	17,078,244	16,426,950	14,191,629	15,354,734	13,273,295	12,113,086
District 4*	17,291,294	15,461,167	13,315,253	12,456,467	10,527,441	9,331,672
District 5	986,[illegible]21	950,557	819,266	708,091	692,917	709,657
District 6	5,026,683	4,203,032	4,334,567	4,458,298	4,302,223	4,692,899
District 7B	659,615	620,212	748,947	840,809	860,879	1,035,429
District 7C	2,303,591	2,086,401	2,053,997	1,829,114	1,679,012	1,564,497
District 8	13,962,887	12,541,137	10,879,589	9,557,332	8,294,307	7,768,399
District 8A	1,953,860	1,389,787	1,324,061	1,212,225	1,075,564	1,090,423
District 9	1,416,465	1,316,277	1,216,469	1,124,048	990,496	932,119
District 10	9,054,639	8,490,904	8,307,084	7,606,706	7,510,755	7,144,847
Utah	1,031,409	917,433	829,862	748,907	698,655	677,079
Virginia	44,707	47,465	56,393	69,041	79,064	75,867
West Virginia	2,265,581	2,311,336	2,273,273	2,375,855	2,683,136	2,867,550
Wyoming	3,917,387	3,703,159	3,704,383	3,962,850	4,315,775	4,685,491
Other	168,084	189,438	191,028	199,380	258,984	274,443
Total U.S.	**237,132,497**	**228,200,176**	**216,026,074**	**208,877,878**	**200,301,707**	**194,916,624**

* Includes adjacent offshore state and federal waters.

Data from Oil & Gas Journal Energy Database.
Source: American Petroleum Institute, American Gas Association

U.S. Natural Gas Reserves
By State
Millions of Cubic Feet

	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	514,000	652,000	636,000	648,000	648,000	785,000	961,000	821,000
Alaska	32,045,000	32,259,000	33,382,000	33,037,000	34,990,000	34,283,000	34,476,000	33,847,000
Arkansas	1,681,000	1,703,000	1,774,000	1,801,000	1,958,000	2,069,000	2,227,000	2,019,000
California	4,947,000	5,022,000	5,414,000	5,617,000	5,552,000	5,781,000	5,554,000	5,444,000
Coastal Region Land*	350,000	365,000	299,000	306,000	362,000	381,000	265,000	256,000
Los Angeles Basin Land*	178,000	163,000	193,000	154,000	96,000	107,000	156,000	181,000
San Joaquin Basin Land	3,960,000	3,941,000	4,344,000	4,163,000	3,901,000	3,819,000	3,685,000	3,574,000
State & Federal Offshore	459,000	553,000	578,000	994,000	1,193,000	1,474,000	1,448,000	1,433,000
Colorado	2,765,000	2,608,000	2,922,000	2,961,000	3,314,000	3,148,000	2,943,000	2,881,000
Florida	119,000	77,000	84,000	69,000	64,000	49,000	65,000	55,000
Kansas	10,992,000	10,243,000	9,508,000	9,860,000	9,724,000	9,553,000	9,387,000	9,337,000
Kentucky	545,000	468,000	508,000	530,000	551,000	554,000	613,000	766,000
Louisiana	55,725,000	50,042,000	47,325,000	47,377,000	44,916,000	42,561,000	41,399,000	40,151,000
North	3,203,000	2,798,000	3,076,000	3,270,000	2,912,000	2,939,000	2,494,000	2,587,000
South Land*	17,755,000	13,994,000	13,026,000	12,645,000	11,801,000	11,142,000	10,331,000	9,808,000
State & Federal Offshore	34,767,000	33,250,000	31,223,000	31,462,000	30,203,000	28,480,000	28,574,000	27,756,000
Michigan	1,422,000	1,204,000	1,406,000	1,118,000	1,084,000	1,219,000	1,112,000	985,000
Mississippi	1,635,000	1,504,000	1,769,000	2,035,000	1,796,000	1,596,000	1,491,000	1,360,000
Montana	926,000	825,000	1,287,000	1,321,000	847,000	896,000	802,000	857,000
New Mexico	12,688,000	13,724,000	13,287,000	13,870,000	12,418,000	11,676,000	11,364,000	10,900,000
East	3,889,000	4,031,000	3,530,000	3,598,000	3,432,000	3,230,000	3,197,000	3,034,000
West	8,799,000	9,693,000	9,757,000	10,272,000	8,986,000	8,446,000	8,167,000	7,866,000
New York	193,000	211,000	208,000	264,000	229,000	295,000	389,000	369,000
North Dakota	374,000	439,000	537,000	581,000	629,000	600,000	566,000	569,000
Ohio	684,000	1,479,000	1,699,000	965,000	1,141,000	2,030,000	1,541,000	1,331,000
Oklahoma	14,417,000	13,816,000	13,138,000	14,699,000	16,207,000	16,211,000	16,126,000	16,040,000
Pennsylvania	899,000	1,515,000	951,000	1,264,000	1,429,000	1,882,000	1,575,000	1,617,000
Texas	55,583,000	53,021,000	50,287,000	50,469,000	49,757,000	50,052,000	49,883,000	49,035,000
District 1	986,000	919,000	829,000	1,022,000	892,000	1,087,000	838,000	967,000
District 2*	2,976,000	2,974,000	2,502,000	2,629,000	2,493,000	2,534,000	2,512,000	2,358,000
District 3*	7,186,000	6,315,000	5,531,000	5,292,000	4,756,000	4,680,000	4,708,000	4,180,000
District 4*	9,031,000	8,326,000	8,130,000	8,004,000	8,410,000	8,316,000	8,525,000	8,250,000
District 5	1,298,000	1,155,000	1,147,000	1,250,000	1,308,000	1,448,000	1,874,000	2,058,000
District 6	3,240,000	3,258,000	4,230,000	4,177,000	4,326,000	4,857,000	4,703,000	4,822,000
District 7B	743,000	751,000	745,000	804,000	805,000	1,027,000	794,000	708,000
District 7C	2,821,000	2,842,000	2,378,000	2,503,000	2,659,000	2,568,000	2,866,000	2,914,000
District 8	11,093,000	10,077,000	9,144,000	8,546,000	8,196,000	8,156,000	7,343,000	7,330,000
District 8A	1,473,000	1,055,000	1,057,000	1,071,000	1,041,000	966,000	907,000	958,000
District 9	908,000	700,000	649,000	953,000	1,103,000	932,000	900,000	892,000
District 10	7,406,000	6,784,000	6,435,000	6,229,000	6,210,000	5,919,000	5,461,000	5,469,000
State & Federal Offshore	6,422,000	7,865,000	7,510,000	7,989,000	7,558,000	7,562,000	8,452,000	8,129,000
Utah	925,000	948,000	1,201,000	1,912,000	2,161,000	2,333,000	2,080,000	1,999,000
Virginia	NA	NA	NA	118,000	122,000	175,000	216,000	235,000
West Virginia	1,634,000	1,558,000	2,422,000	1,834,000	2,148,000	2,194,000	2,136,000	2,058,000
Wyoming	7,211,000	7,526,000	9,100,000	9,307,000	9,758,000	10,227,000	10,482,000	10,617,000
Other	109,000	153,000	176,000	73,000	69,000	78,000	75,000	76,000
Total U.S.	208,033,000	200,997,000	199,021,000	201,730,000	201,512,000	200,247,000	197,463,000	193,369,000

* Excludes adjacent offshore state and federal waters which were included in the previous data series on reserves from API/AGA.

Data from Oil & Gas Journal Energy Database.
Source Energy Information Administration

Worldwide Crude Oil Reserves
By Country, Beginning of Year
Thousands of barrels

	1952	1953	1954	1955	1956	1957	1958	1959	1960
United States	26,121,000	27,537,000	29,044,000	28,944,800	29,560,700	32,873,000	33,001,000	33,000,000	33,500,000
Canada	1,600,000	1,800,000	1,950,000	2,850,000	2,207,614	3,500,000	4,000,000	4,000,000	4,590,000
Argentina	340,000	330,000	325,000	410,000	400,000	400,000	750,000	1,000,000	2,000,000
Barbados	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bolivia	40,000	40,000	12,000	45,000	50,000	70,000	70,000	90,000	94,000
Brazil	35,000	45,000	50,000	60,000	27,000	40,000	140,000	250,000	250,000
Chile	35,000	45,000	55,000	55,000	25,000	25,000	40,000	50,000	65,000
Colombia	450,000	470,000	550,000	570,000	580,000	650,000	650,000	700,000	750,000
Ecuador	25,000	25,000	28,000	28,000	25,000	25,000	25,000	25,000	24,000
Guatemala	NA	NA	NA	NA	NA	NA	NA	NA	NA
Honduras	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mexico	1,424,000	1,525,000	1,725,000	1,750,000	1,900,000	2,500,000	2,750,000	2,500,000	2,500,000
Peru	250,000	250,000	250,000	225,000	225,000	275,000	275,000	325,000	325,000
Suriname	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trinidad & Tobago	240,000	250,000	285,000	280,000	280,000	285,000	300,000	400,000	425,000
Venezuela	9,031,000	8,900,000	9,900,000	10,930,000	12,000,000	13,200,000	16,000,000	16,500,000	18,000,000
Latin America	11,870,000	11,880,000	13,180,000	14,353,000	15,512,000	17,470,000	21,000,000	21,840,000	24,433,000
Western Hemisphere	39,591,000	41,217,000	44,174,000	46,147,800	47,280,314	53,843,000	58,001,000	58,840,000	62,523,000
Austria	150,000	160,000	NA	NA	400,000	395,000	350,000	300,000	250,000
Denmark	NA	NA	NA	NA	NA	NA	NA	NA	NA
France	25,000	30,000	32,000	100,000	120,000	150,000	150,000	175,000	200,000
Germany, West	185,000	200,000	300,000	435,000	495,000	454,000	450,000	420,000	500,000
Greece	NA	NA	NA	NA	NA	NA	NA	NA	NA
Italy	2,500	5,000	6,000	90,000	110,000	150,000	200,000	300,000	300,000
Netherlands	75,000	75,000	100,000	90,000	95,000	115,000	115,000	200,000	200,000
Norway	NA	NA	NA	NA	NA	NA	NA	NA	NA
Spain	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turkey	20,000	35,000	80,000	65,000	65,000	65,000	65,000	70,000	70,000
United Kingdom	3,000	2,700	3,500	4,200	5,000	5,000	7,000	7,000	6,000
Western Europe	460,500	507,700	521,500	784,200	1,290,000	1,334,000	1,337,000	1,472,000	1,526,000
Afghanistan	NA	NA	NA	NA	NA	NA	NA	NA	NA
Australia	NA	NA	NA	1,000	1,000	1,000	1,000	1,000	1,000
Brunei	* 500,000	* 500,000	* 500,000	* 525,000	* 500,000	* 600,000	* 550,000	* 500,000	* 500,000
Burma	140,000	140,000	50,000	45,000	45,000	45,000	45,000	45,000	45,000
India	25,000	25,000	30,000	50,000	60,000	400,000	400,000	500,000	525,000
Indonesia	1,250,000	1,300,000	1,900,000	1,900,000	2,300,000	5,000,000	7,500,000	8,500,000	9,000,000
Japan	20,000	25,000	28,000	52,000	22,000	22,000	25,000	50,000	50,000
Mayalsia	* NA	* NA	* NA	* NA	* NA	* NA	* NA	* NA	* NA
New Zealand	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pakistan	20,000	22,000	25,000	20,000	22,000	22,000	22,000	20,000	25,000
Papua, New Guinea	30,000	50,000	50,000	115,000	50,000	50,000	35,000	30,000	28,000
Philippines	NA	NA	NA	NA	NA	NA	NA	NA	1,000
Taiwan	NA	NA	NA	NA	NA	NA	NA	500	500
Thailand	NA	NA	NA	NA	NA	NA	NA	NA	NA
Asia-Pacific	1,985,000	2,062,000	2,583,000	2,708,000	3,000,000	6,140,000	8,578,000	9,646,500	10,175,500

Worldwide Crude Oil Reserves
By Country, Beginning of Year
Thousands of barrels

	1952	1953	1954	1955	1956	1957	1958	1959	1960
Abu Dhabi	NA	NA	NA	NA	NA	NA	NA	100,000	100,000
Bahrain	300,000	290,000	280,000	215,000	205,000	205,000	200,000	230,000	225,000
Dubai	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iran	15,000,000	15,000,000	15,000,000	15,000,000	27,000,000	30,000,000	32,000,000	33,000,000	35,000,000
Iraq	10,000,000	12,000,000	13,000,000	14,250,000	20,000,000	22,000,000	25,000,000	25,000,000	25,000,000
Israel	NA	NA	NA	NA	1,000	50,000	50,000	50,000	40,000
Kuwait	15,000,000	20,000,000	20,000,000	30,000,000	40,000,000	50,000,000	60,000,000	60,000,000	62,000,000
Neutral Zone	NA	NA	300,000	429,000	500,000	650,000	5,000,000	6,000,000	6,500,000
North Yemen	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oman	NA	NA	NA	NA	NA	NA	NA	NA	NA
Qatar	1,200,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,750,000	2,500,000	2,500,000
Ra's al Khaymah	NA	NA	NA	NA	NA	NA	NA	NA	NA
Saudi Arabia	12,000,000	16,000,000	28,000,000	36,000,000	37,000,000	40,000,000	45,000,000	47,000,000	50,000,000
Sharjah	NA	NA	NA	NA	NA	NA	NA	NA	NA
Syria	NA	NA	NA	NA	NA	NA	1,000	1,000	1,000
Middle East	53,500,000	64,790,000	78,080,000	97,394,000	126,206,000	144,405,000	169,001,000	173,881,000	181,366,000
Algeria	NA	NA	5,000	5,000	5,000	15,000	500,000	3,500,000	5,000,000
Angola-Cabinda	NA	NA	NA	NA	NA	NA	NA	25,000	25,000
Benin	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cameroon	NA	NA	NA	NA	NA	NA	NA	NA	NA
Congo	NA	NA	NA	NA	NA	NA	NA	10,000	10,000
Egypt	170,000	155,000	140,000	92,000	150,000	250,000	275,000	400,000	500,000
Gabon	NA	NA	NA	NA	NA	NA	NA	100,000	150,000
Ghana	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ivory Coast	NA	NA	NA	NA	NA	NA	NA	NA	NA
Libya	NA	NA	NA	NA	NA	NA	NA	50,000	1,500,000
Morocco	5,000	8,000	13,000	15,000	14,000	10,000	9,000	8,500	8,500
Nigeria	NA	NA	NA	NA	NA	10,000	30,000	25,000	80,000
South Africa	NA	NA	NA	NA	NA	NA	NA	NA	NA
Senegal	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sudan	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tunisia	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zaire	NA	NA	NA	NA	NA	NA	NA	NA	NA
Africa	175,000	163,000	158,000	112,000	169,000	285,000	814,000	4,118,500	7,273,500
Eastern Hemisphere	56,120,500	67,522,700	81,342,500	100,998,200	130,665,000	152,164,000	179,730,000	189,118,000	200,341,000
Total Non-Communist	95,711,500	108,739,700	125,516,500	147,146,000	177,945,314	206,007,000	237,731,000	247,958,000	262,864,000
China	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cuba	3,850	3,500	2,000	3,000	3,000	4,000	3,500	3,000	2,600
U.S.S.R.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Yugoslavia	NA	NA	NA	NA	36,000	36,000	32,000	35,000	40,000
Other Communist	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Communist	7,920,850	9,411,500	9,742,000	10,390,000	10,872,000	25,040,000	26,235,500	27,743,000	30,179,600
Total World	103,632,350	118,151,200	135,258,500	157,536,000	188,817,314	231,047,000	263,966,500	275,701,000	293,043,600

Worldwide Crude Oil Reserves
By Country, Beginning of Year
Thousands of barrels

	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
United States	33,535,000	35,500,000	35,300,000	34,272,000	34,492,000	35,400,000	38,159,000	37,541,000	32,500,000	38,700,000
Canada	5,000,000	5,000,000	4,600,000	5,675,000	5,281,000	7,500,000	8,250,000	8,791,750	9,900,000	8,782,000
Argentina	2,200,000	2,400,000	2,400,000	2,300,000	2,000,000	1,900,000	2,905,000	2,905,000	3,100,000	4,000,000
Barbados	NA	NA	NA	NA	NA	NA	1,000	1,000	1,000	1,000
Bolivia	95,000	125,000	125,000	200,000	400,000	400,000	500,000	600,000	585,000	251,000
Brazil	300,000	325,000	300,000	300,000	900,000	500,000	1,000,000	700,000	850,000	882,000
Chile	110,000	150,000	150,000	200,000	225,000	200,000	175,000	150,000	136,000	130,000
Colombia	750,000	750,000	850,000	900,000	1,200,000	1,500,000	1,700,000	2,000,000	1,700,000	1,750,000
Ecuador	30,000	30,000	25,000	25,000	25,000	20,000	18,000	25,000	325,000	500,000
Guatemala	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Honduras	NA	NA	NA	NA	NA	500	1,000	1,000	500	500
Mexico	2,250,000	2,500,000	2,500,000	2,500,000	2,800,000	2,500,000	2,500,000	2,600,000	5,500,000	6,000,000
Peru	375,000	400,000	375,000	380,000	425,000	400,000	400,000	500,000	475,000	315,000
Suriname	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trinidad & Tobago	450,000	475,000	500,000	500,000	550,000	500,000	500,000	425,000	610,000	600,000
Venezuela	18,500,000	17,550,000	17,000,000	17,000,000	17,000,000	17,250,000	17,400,000	17,000,000	15,500,000	14,750,000
Latin America	25,060,000	24,705,000	24,225,000	24,305,000	25,525,000	25,170,500	27,100,000	26,907,000	28,782,500	29,179,500
Western Hemisphere	63,595,000	65,205,000	64,125,000	64,252,000	65,298,000	68,070,500	73,509,000	73,239,750	71,182,500	76,661,500
Austria	275,000	260,000	240,000	240,000	275,000	260,000	209,100	201,000	200,000	147,000
Denmark	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
France	225,000	225,000	225,000	235,000	235,000	230,000	210,000	205,000	185,000	150,000
Germany, West	500,000	500,000	550,000	650,000	650,000	640,000	586,000	710,000	720,000	700,000
Greece	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Italy	320,000	320,000	320,000	300,000	325,000	320,000	306,000	300,000	275,000	250,000
Netherlands	250,000	250,000	250,000	250,000	300,000	350,000	334,000	331,000	300,000	275,000
Norway	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Spain	NA	NA	NA	NA	100	10,000	10,000	10,000	14,000	10,000
Turkey	75,000	75,000	100,000	350,000	700,000	500,000	1,000,000	750,000	700,000	650,000
United Kingdom	5,000	6,000	6,000	600	500	10,000	9,400	10,000	8,000	7,000
Western Europe	1,650,000	1,636,000	1,691,000	2,025,600	2,485,600	2,320,000	2,664,500	2,517,000	2,402,000	2,189,000
Afghanistan	NA	NA	NA	NA	NA	NA	100,000	110,000	100,000	100,000
Australia	1,000	2,000	50,000	150,000	50,000	60,000	607,900	440,000	2,500,000	2,500,000
Brunei	* 500,000	* 715,000	* 650,000	* 600,000	* 707,500	* 500,000	* 470,000	* 500,000	* 600,000	* 650,000
Burma	45,000	45,000	40,000	35,000	30,000	40,000	36,000	35,000	40,000	50,000
India	750,000	500,000	500,000	750,000	750,000	800,000	1,400,000	1,638,000	1,500,000	715,000
Indonesia	9,500,000	9,500,000	10,000,000	10,000,000	10,000,000	9,500,000	9,100,000	9,000,000	8,850,000	9,000,000
Japan	60,000	60,000	50,000	50,000	50,000	45,000	35,600	36,000	35,000	34,000
Mayalsia	* NA	* NA	* NA	* NA	* NA	* NA	* NA	* NA	* NA	* NA
New Zealand	NA	NA	NA	100	100	26,000	26,000	26,000	26,000	26,000
Pakistan	25,000	25,000	25,000	25,000	25,000	36,000	32,000	30,000	50,000	45,000
Papua, New Guinea	25,000	20,000	15,000	10,000	NA	NA	NA	NA	NA	NA
Philippines	NA	100	500	500	500	500	NA	NA	NA	NA
Taiwan	500	500	300	300	300	1,000	750	745	19,000	18,000
Thailand	NA	NA	300	300	300	250	222	200	200	150
Asia-Pacific	10,906,500	10,867,600	11,331,100	11,621,200	11,613,700	11,008,750	11,808,472	11,815,945	13,720,200	13,138,150

Worldwide Crude Oil Reserves
By Country, Beginning of Year
Thousands of barrels

	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
Abu Dhabi	250,000	3,500,000	5,000,000	7,500,000	7,700,000	10,000,000	12,500,000	15,000,000	18,000,000	16,000,000
Bahrain	250,000	245,000	245,000	243,000	250,000	230,000	200,000	195,000	170,000	343,000
Dubai	NA	NA	NA	NA	NA	NA	NA	NA	1,000,000	1,000,000
Iran	35,000,000	35,000,000	37,000,000	37,000,000	38,000,000	40,000,000	44,200,000	43,800,000	54,000,000	55,000,000
Iraq	27,000,000	26,500,000	26,000,000	25,500,000	25,000,000	25,000,000	24,000,000	23,500,000	28,000,000	27,500,000
Israel	35,000	34,000	30,000	25,000	30,000	30,000	14,600	14,000	15,000	13,000
Kuwait	62,000,000	62,000,000	63,000,000	63,500,000	63,000,000	62,500,000	68,700,000	70,000,000	69,000,000	68,000,000
Neutral Zone	6,000,000	6,000,000	7,500,000	10,000,000	12,500,000	12,400,000	13,000,000	13,500,000	15,000,000	13,000,000
North Yemen	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oman	NA	NA	NA	NA	500,000	500,000	500,000	2,500,000	2,500,000	5,000,000
Qatar	2,500,000	2,750,000	3,000,000	2,950,000	3,500,000	3,000,000	4,000,000	3,750,000	3,875,000	5,500,000
Ra's al Khaymah	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Saudi Arabia	50,000,000	52,000,000	52,000,000	60,000,000	60,500,000	60,000,000	66,000,000	74,700,000	77,000,000	140,000,000
Sharjah	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Syria	50,000	100,000	100,000	300,000	500,000	1,200,000	1,500,000	1,500,000	1,500,000	1,500,000
Middle East	183,085,000	188,129,000	193,875,000	207,018,000	211,480,000	214,860,000	234,614,600	248,459,000	270,060,000	332,856,000
Algeria	5,200,000	5,500,000	6,500,000	7,000,000	7,500,000	7,400,000	7,250,000	6,900,000	7,000,000	8,000,000
Angola-Cabinda	30,000	30,000	50,000	200,000	200,000	150,000	140,000	500,000	500,000	645,000
Benin	NA	NA	NA	NA	NA	NA	NA	NA	20,000	20,000
Cameroon	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Congo	10,000	10,000	10,000	10,000	10,000	9,000	8,000	7,500	6,800	6,000
Egypt	550,000	710,000	720,000	1,500,000	1,500,000	2,000,000	944,000	1,400,000	2,100,000	5,000,000
Gabon	150,000	150,000	150,000	150,000	170,000	175,000	200,000	350,000	465,000	500,000
Ghana	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ivory Coast	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Libya	2,000,000	3,000,000	4,500,000	7,000,000	9,000,000	10,000,000	20,000,000	29,200,000	30,000,000	35,000,000
Morocco	9,500	9,500	15,000	15,000	15,000	14,500	12,500	11,750	8,000	7,500
Nigeria	150,000	300,000	400,000	500,000	1,000,000	3,000,000	3,500,000	3,550,000	4,000,000	5,000,000
South Africa	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Senegal	NA	NA	500	500	500	NA	NA	NA	NA	NA
Sudan	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tunisia	NA	NA	NA	NA	100	300,000	300,000	365,000	468,000	500,000
Zaire	NA	NA	NA	NA	NA	500	1,000	1,000	1,000	1,000
Africa	8,099,500	9,709,500	12,345,500	16,375,500	19,395,600	23,049,000	32,355,500	42,285,250	44,568,800	54,679,500
Eastern Hemisphere	203,741,000	210,342,100	219,242,600	237,040,300	244,974,900	251,237,750	281,443,072	305,077,195	330,751,000	402,862,650
Total Non-Communist	267,336,000	275,547,100	283,367,600	301,292,300	310,272,900	319,308,250	354,952,072	378,316,945	401,933,500	479,524,150
China	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cuba	1,800	1,000	500	NA	NA	NA	300	250	275	250
U.S.S.R.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Yugoslavia	147,000	175,000	200,000	250,000	250,000	265,000	260,000	250,000	235,000	240,000
Other Communist	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Communist	33,650,800	34,428,000	30,176,500	29,750,000	31,000,000	33,750,000	34,098,300	36,023,250	56,112,275	60,240,250
Total World	300,986,800	309,975,100	313,544,100	331,042,300	341,272,900	353,058,250	389,050,372	414,340,195	458,045,775	539,764,400

Worldwide Crude Oil Reserves
By Country, Beginning of Year
Thousands of barrels

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
United States	37,012,640	37,250,440	36,823,268	34,700,248	35,299,836	33,000,000	31,300,000	29,500,000	28,500,000	26,500,000
Canada	10,750,000	8,448,300	10,200,000	9,424,170	9,400,000	7,100,000	6,200,000	6,000,000	6,000,000	6,800,000
Argentina	4,500,000	2,500,000	4,900,000	2,500,000	2,346,000	2,465,000	2,300,000	2,503,000	2,400,000	2,400,000
Barbados	750	750	750	250	25,000	21,400	3,650	1,000	500	1,500
Bolivia	225,000	217,000	200,000	260,000	250,000	235,000	240,000	350,000	250,000	150,000
Brazil	850,000	1,000,000	857,000	799,000	775,000	780,000	800,000	880,000	1,200,000	1,220,000
Chile	125,000	120,000	125,000	124,000	200,000	190,000	182,000	440,000	400,000	400,000
Colombia	1,675,000	1,663,000	1,500,000	1,432,000	900,000	556,600	825,000	960,000	750,000	710,000
Ecuador	750,000	5,748,000	5,750,000	5,675,000	2,500,000	2,450,000	1,700,000	1,640,000	1,170,000	1,100,000
Guatemala	NA	NA	10,000	0	0	0	21,300	16,000	16,000	16,000
Honduras	500	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mexico	3,200,000	4,500,000	2,800,000	3,600,000	13,582,000	9,500,000	7,000,000	14,000,000	16,000,000	31,250,000
Peru	270,000	400,000	750,000	1,050,000	2,500,000	770,000	747,000	730,000	560,000	655,000
Suriname	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trinidad & Tobago	575,000	1,500,000	2,000,000	2,200,000	2,500,000	700,000	520,000	650,000	500,000	700,000
Venezuela	14,000,000	13,900,000	13,700,000	14,000,000	15,000,000	17,700,000	15,270,000	18,200,000	18,000,000	17,870,000
Latin America	26,171,250	31,548,750	32,592,750	31,640,250	40,578,000	35,368,000	29,608,950	40,370,000	41,246,500	56,472,500
Western Hemisphere	73,933,890	77,247,490	79,616,018	75,764,668	85,277,836	75,468,000	67,108,950	75,870,000	75,746,500	89,772,500
Austria	180,000	185,000	175,000	157,000	182,000	167,000	160,000	154,500	150,000	141,400
Denmark	NA	250,000	250,000	248,500	247,000	245,000	300,000	50,000	300,000	375,000
France	125,000	92,000	81,000	80,000	142,000	88,000	50,000	43,000	56,000	50,000
Germany, West	584,000	591,000	551,000	544,000	550,000	372,700	332,510	320,000	310,000	480,000
Greece	NA	NA	NA	NA	NA	40,000	40,000	25,000	150,000	150,000
Italy	225,000	224,000	220,000	212,000	750,000	700,000	315,000	600,000	650,000	645,000
Netherlands	261,000	260,000	250,000	251,000	250,000	250,000	91,300	80,000	70,000	60,000
Norway	1,000,000	7,000,000	2,000,000	4,000,000	7,300,000	7,000,000	5,660,000	6,000,000	5,900,000	5,750,000
Spain	8,500	305,000	55,000	60,000	293,000	250,000	440,000	265,000	80,000	150,000
Turkey	645,000	580,000	550,000	450,000	500,000	107,100	390,000	370,000	360,000	125,000
United Kingdom	1,000,000	5,000,000	5,000,000	10,000,000	15,700,000	16,000,000	16,800,000	19,000,000	16,000,000	15,400,000
Western Europe	4,028,500	14,487,000	9,132,000	16,002,500	25,914,000	25,219,800	24,578,810	26,907,500	24,026,000	23,326,400
Afghanistan	95,000	90,000	89,900	89,840	85,000	85,000	85,000	84,000	NA	NA
Australia	2,000,000	2,896,000	2,121,460	2,300,000	2,300,000	1,700,000	1,380,000	2,000,000	2,100,000	2,130,000
Brunei	* 1,000,000	* 950,000	* 1,500,000	* 1,600,000	* 2,500,000	2,000,000	1,625,000	1,550,000	1,480,000	1,800,000
Burma	40,000	6,000	75,000	67,800	65,000	70,000	63,000	55,000	45,000	25,000
India	956,000	949,000	834,000	779,000	834,000	913,000	3,000,000	3,000,000	2,900,000	2,600,000
Indonesia	10,000,000	10,400,000	10,005,000	10,500,000	15,000,000	14,000,000	10,500,000	10,000,000	10,200,000	9,600,000
Japan	30,000	29,000	23,000	19,000	30,000	25,000	28,000	63,000	60,000	55,000
Mayalsia	* NA	* NA	* NA	* NA	* NA	2,500,000	2,430,000	2,500,000	2,800,000	2,800,000
New Zealand	226,000	225,000	224,000	224,000	75,000	75,000	190,000	105,000	110,000	110,000
Pakistan	41,500	38,000	34,500	31,200	28,700	26,000	75,000	280,000	200,000	200,000
Papua, New Guinea	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Philippines	NA	NA	NA	NA	NA	NA	NA	NA	100,000	25,000
Taiwan	20,000	21,000	15,000	14,000	15,000	15,000	15,000	12,000	12,000	10,200
Thailand	148	500	400	10,200	115,000	230	140	270	200	0
Asia-Pacific	14,408,648	15,604,500	14,922,260	15,635,040	21,047,700	21,409,230	19,391,140	19,649,270	20,007,200	19,355,200

Worldwide Crude Oil Reserves
By Country, Beginning of Year
Thousands of barrels

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Abu Dhabi	11,800,000	18,948,000	20,768,000	21,500,000	30,000,000	29,500,000	29,000,000	31,000,000	30,000,000	28,000,000
Bahrain	634,000	631,000	375,000	360,000	336,000	312,000	290,000	270,000	250,000	240,000
Dubai	983,000	1,554,000	2,000,000	2,500,000	2,420,000	1,350,000	1,500,000	1,400,000	1,300,000	1,400,000
Iran	70,000,000	55,500,000	65,000,000	60,000,000	66,000,000	64,500,000	63,000,000	62,000,000	59,000,000	58,000,000
Iraq	32,000,000	35,990,000	29,000,000	31,500,000	35,000,000	34,300,000	34,000,000	34,500,000	32,100,000	31,000,000
Israel	12,900	10,000	9,000	2,500	2,200	1,470	1,220	1,000	10,000	1,000
Kuwait	67,100,000	66,023,000	64,900,000	64,000,000	72,800,000	68,000,000	67,400,000	67,000,000	66,200,000	65,400,000
Neutral Zone	25,700,000	24,350,000	16,000,000	17,500,000	17,300,000	6,400,000	6,300,000	6,200,000	6,480,000	6,260,000
North Yemen	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oman	1,700,000	5,200,000	5,000,000	5,250,000	6,000,000	5,900,000	5,800,000	5,650,000	2,500,000	2,400,000
Qatar	4,300,000	6,000,000	7,000,000	6,500,000	6,000,000	5,850,000	5,700,000	5,600,000	4,000,000	3,760,000
Ra's al Khaymah	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Saudi Arabia	128,500,000	145,300,000	138,000,000	132,000,000	164,500,000	148,600,000	151,400,000	150,000,000	165,700,000	163,350,000
Sharjah	NA	NA	NA	1,500,000	1,500,000	1,350,000	700,000	25,000	16,000	11,300
Syria	1,200,000	7,300,000	7,250,000	7,100,000	1,500,000	2,240,000	2,200,000	2,150,000	2,080,000	2,000,000
Middle East	343,929,900	366,806,000	355,302,000	349,712,500	403,358,200	368,303,470	367,291,220	365,796,000	369,636,000	361,822,300
Algeria	30,000,000	12,250,000	47,000,000	7,640,000	7,700,000	7,370,000	6,800,000	6,600,000	6,300,000	8,440,000
Angola-Cabinda	500,000	803,000	1,200,000	1,500,000	1,175,000	1,300,000	1,210,000	1,160,000	1,115,000	1,200,000
Benin	1,000	1,000	1,000	NA	NA	NA	NA	NA	NA	NA
Cameroon	NA	NA	NA	NA	NA	NA	NA	60,000	50,000	140,000
Congo	3,600	3,300,000	5,000,000	4,888,000	4,874,000	2,450,000	285,000	360,000	315,000	400,000
Egypt	4,500,000	4,000,000	5,200,000	5,125,000	3,700,000	3,900,000	1,950,000	2,450,000	3,200,000	3,100,000
Gabon	700,000	750,000	1,100,000	1,500,000	1,750,000	2,200,000	2,125,000	2,050,000	1,970,000	500,000
Ghana	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	7,000
Ivory Coast	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Libya	29,200,000	25,000,000	30,400,000	25,500,000	26,600,000	26,100,000	25,500,000	25,000,000	24,300,000	23,500,000
Morocco	920	1,200	1,000	750	450	220	200	150	125	100
Nigeria	9,300,000	11,680,000	15,000,000	20,000,000	20,900,000	20,200,000	19,500,000	18,700,000	18,200,000	17,400,000
South Africa	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Senegal	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sudan	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tunisia	550,000	600,000	1,000,000	950,000	1,100,000	1,065,000	2,700,000	2,670,000	2,300,000	2,250,000
Zaire	1,000	500,000	500,000	200,000	500,000	500,000	500,000	150,000	142,000	135,000
Africa	74,757,520	58,886,200	106,402,000	67,303,750	68,299,450	65,085,220	60,570,200	59,200,150	57,892,125	57,072,100
Eastern Hemisphere	437,124,568	455,783,700	485,758,260	448,653,790	518,619,350	480,017,720	471,831,370	471,552,920	471,561,325	461,576,000
Total Non-Communist	511,058,458	533,031,190	565,374,278	524,418,458	603,897,186	555,485,720	538,940,320	547,422,920	547,307,825	551,348,500
China	NA	NA	NA	NA	NA	NA	20,000,000	20,000,000	20,000,000	20,000,000
Cuba	14,000	10,000	9,000	0	+ NA	+ NA	+ NA	+ NA	+ NA	+ NA
U.S.S.R.	NA	NA	NA	NA	NA	NA	78,100,000	75,000,000	71,000,000	67,000,000
Yugoslavia	325,000	315,000	3,500,000	438,000	400,000	375,000	350,000	325,000	300,000	275,000
Other Communist	NA	NA	NA	NA	NA	NA	3,000,000	3,000,000	3,000,000	3,000,000
Total Communist	100,339,000	98,825,000	101,509,000	103,438,000	111,800,000	103,375,000	101,450,000	98,325,000	94,300,000	90,275,000
Total World	611,397,458	631,856,190	666,883,278	627,856,458	715,697,186	658,860,720	640,390,320	645,747,920	641,607,825	641,623,500

Worldwide Crude Oil Reserves
By Country, Beginning of Year
Thousands of barrels

	1981	1982	1983	1984	1985	1986	1987
United States	**26,400,000**	**29,785,000**	**29,785,000**	**27,300,000**	**27,300,000**	**28,000,000**	**24,560,000**
Canada	**6,400,000**	**7,300,000**	**7,020,000**	**6,730,000**	**7,075,000**	**6,500,000**	**6,850,000**
Argentina	2,457,000	2,650,000	2,590,000	2,428,700	2,266,000	2,300,000	2,270,000
Barbados	837	450	730	600	600	400	500
Bolivia	112,000	104,000	180,000	160,500	158,000	154,000	149,000
Brazil	1,300,000	1,325,060	1,750,000	1,800,000	1,976,000	2,070,000	2,250,000
Chile	400,000	790,000	760,000	748,000	736,000	726,000	290,000
Colombia	800,000	516,450	536,000	560,000	624,000	1,224,000	1,290,500
Ecuador	1,100,000	850,000	1,400,000	1,675,000	1,400,000	1,650,000	1,672,300
Guatemala	20,000	55,000	50,000	48,000	500,000	50,000	23,000
Honduras	NA	NA	NA	NA	NA	NA	NA
Mexico	44,000,000	56,990,000	48,300,000	48,000,000	48,600,000	49,300,000	54,653,000
Peru	650,000	801,310	835,336	775,100	670,100	636,000	546,000
Suriname	NA	NA	NA	NA	NA	1,000	1,000
Trinidad & Tobago	700,000	600,000	580,000	630,000	540,000	540,000	610,000
Venezuela	17,950,000	20,300,000	21,500,000	24,850,000	25,845,000	25,591,000	25,000,000
Latin America	**69,489,837**	**84,982,270**	**78,482,066**	**81,675,900**	**83,315,700**	**84,242,400**	**88,755,300**
Western Hemisphere	**102,289,837**	**122,067,270**	**115,287,066**	**115,705,900**	**117,690,700**	**118,742,400**	**120,165,300**
Austria	130,000	134,000	128,200	122,000	118,500	110,000	76,300
Denmark	475,000	470,000	473,000	324,000	400,000	465,000	440,000
France	40,000	103,000	124,300	139,780	148,000	230,000	234,900
Germany, West	450,000	342,400	310,000	304,000	299,000	292,000	316,000
Greece	150,000	73,000	59,780	51,000	51,000	34,600	26,000
Italy	640,000	625,000	703,000	800,000	800,000	740,000	721,750
Netherlands	285,000	345,000	294,000	308,700	310,000	251,000	194,900
Norway	5,500,000	7,620,000	6,800,000	7,660,000	8,300,000	10,900,000	10,500,000
Spain	350,000	121,700	131,400	160,000	115,000	90,000	28,200
Turkey	110,000	280,000	280,000	370,000	294,000	300,000	400,000
United Kingdom	14,800,000	14,800,000	13,900,000	13,150,000	13,590,000	13,000,000	9,000,000
Western Europe	**22,930,000**	**24,914,100**	**23,203,680**	**23,389,480**	**24,425,500**	**26,412,600**	**21,938,050**
Afghanistan	NA	NA	NA	NA	NA	NA	NA
Australia	2,360,000	1,709,000	1,622,077	1,586,000	1,430,900	1,449,000	1,712,800
Brunei	1,710,000	1,630,000	1,240,000	1,390,000	1,400,000	1,480,000	1,420,900
Burma	30,000	28,000	32,000	30,000	28,000	65,500	58,000
India	2,580,000	2,672,000	3,416,400	3,485,000	3,500,000	3,736,000	4,202,800
Indonesia	9,500,000	9,800,000	9,550,000	9,100,000	8,650,000	8,500,000	8,300,000
Japan	52,000	70,000	60,000	58,000	56,000	62,000	57,000
Mayalsia	3,000,000	2,800,000	3,325,000	3,000,000	3,000,000	3,100,000	2,820,500
New Zealand	173,000	170,800	169,000	170,000	155,000	176,000	167,000
Pakistan	196,500	240,000	196,300	82,900	82,000	109,000	96,000
Papua, New Guinea	NA	NA	NA	NA	50,000	50,000	65,000
Philippines	20,000	23,000	35,600	16,300	16,300	16,300	16,900
Taiwan	9,000	8,000	6,700	6,200	5,700	5,500	5,400
Thailand	0	0	103,000	45,000	156,000	107,000	101,200
Asia-Pacific	**19,630,500**	**19,150,800**	**19,756,077**	**18,969,400**	**18,529,900**	**18,856,300**	**19,023,500**

Worldwide Crude Oil Reserves
By Country, Beginning of Year
Thousands of barrels

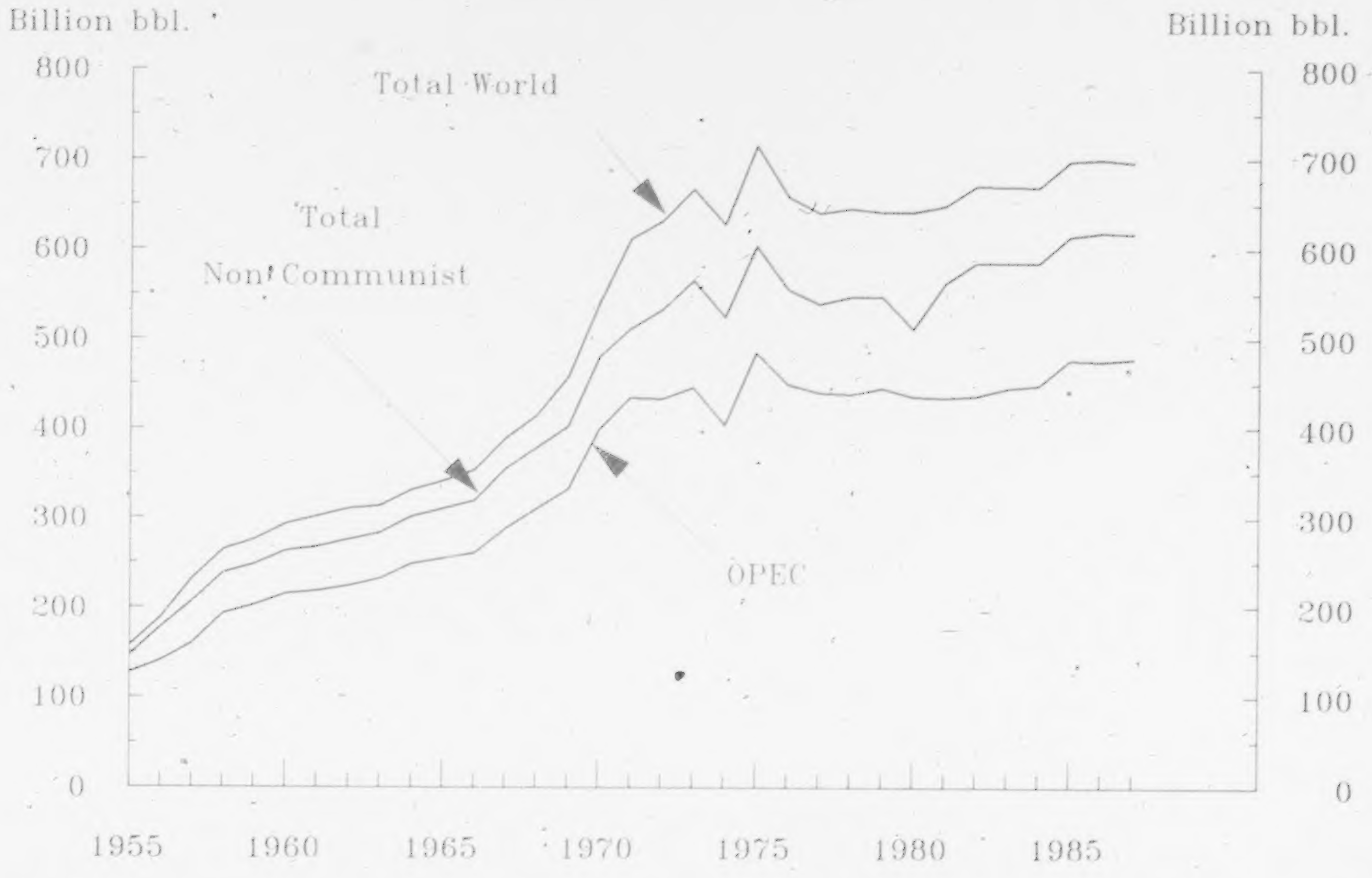
	1981	1982	1983	1984	1985	1986	1987
Abu Dhabi	29,000,000	30,600,000	30,510,000	30,400,000	30,500,000	31,000,000	31,000,000
Bahrain	225,000	209,000	197,000	185,000	170,000	155,000	140,000
Dubai	1,400,000	1,270,000	1,440,000	1,440,000	1,440,000	1,400,000	1,350,000
Iran	57,500,000	57,000,000	55,308,000	51,000,000	48,500,000	47,876,000	48,800,000
Iraq	30,000,000	29,700,000	41,000,000	43,000,000	44,500,000	44,110,000	47,100,000
Israel	1,000	950	893	800	750	710	700
Kuwait	64,900,000	64,480,000	64,230,000	63,900,000	90,000,000	89,774,000	91,916,000
Neutral Zone	6,060,000	6,500,000	5,840,000	5,695,000	5,420,000	5,380,000	5,212,100
North Yemen	NA	NA	NA	NA	NA	200,000	500,000
Oman	2,340,000	2,570,000	2,730,000	2,790,000	3,500,000	4,000,000	4,032,000
Qatar	3,585,000	3,434,000	3,425,000	3,330,000	3,350,000	3,300,000	3,154,000
Ra's al Khaymah	NA	NA	NA	100,000	100,000	100,000	200,000
Saudi Arabia	165,000,000	164,600,000	162,400,000	166,000,000	169,000,000	168,800,000	166,573,900
Sharjah	10,000	306,000	404,000	400,000	450,000	490,000	500,000
Syria	1,940,000	1,890,000	1,521,000	1,490,000	1,450,000	1,440,000	1,400,000
Middle East	361,961,000	362,559,950	369,005,893	369,730,800	398,380,750	398,025,710	401,878,700
Algeria	8,200,000	8,080,000	9,440,000	9,220,000	9,000,000	8,820,000	8,800,000
Angola-Cabinda	1,200,000	1,450,000	1,635,000	1,700,000	1,800,000	2,000,000	1,149,400
Benin	NA	NA	NA	100,000	100,000	100,000	100,000
Cameroon	200,000	480,000	530,000	520,000	550,000	555,000	540,000
Congo	660,000	1,300,000	1,550,000	400,000	480,000	650,000	720,000
Egypt	2,900,000	2,930,000	3,325,000	3,450,000	3,200,000	3,850,000	3,600,000
Gabon	450,000	480,000	460,000	490,000	510,000	520,000	645,000
Ghana	6,300	2,310	5,400	3,800	3,800	3,800	2,350
Ivory Coast	50,000	314,000	110,500	108,000	108,000	125,000	125,000
Libya	23,000,000	22,600,000	21,500,000	21,270,000	21,100,000	21,300,000	21,300,000
Morocco	75	320	290	220	250	250	300
Nigeria	16,700,000	16,500,000	16,750,000	16,550,000	16,650,000	16,600,000	16,000,000
South Africa	NA	NA	116,500	115,000	114,500	NA	NA
Senegal	NA	NA	NA	750,000	NA	NA	NA
Sudan	NA	200,000	400,000	300,000	300,000	300,000	300,000
Tunisia	1,652,000	1,690,000	1,860,000	1,820,000	1,514,000	1,800,000	1,800,000
Zaire	130,000	145,000	139,000	110,000	110,000	110,000	112,000
Africa	55,148,375	56,171,630	57,821,690	56,907,020	55,540,550	56,734,050	55,194,050
Eastern Hemisphere	459,669,875	462,796,480	469,787,340	468,996,700	496,876,700	500,028,660	498,034,300
Total Non-Communist	561,959,712	584,863,750	585,074,406	584,702,600	614,567,400	618,771,060	618,199,600
China	20,500,000	19,895,000	19,485,000	19,100,000	19,100,000	18,420,000	18,400,000
Cuba	+ NA	+ NA	+ NA	+ NA	+ NA	+ NA	+ NA
U.S.S.R.	63,000,000	63,000,000	63,000,000	63,000,000	63,000,000	61,000,000	59,000,000
Yugoslavia	265,000	+ NA	+ NA	+ NA	+ NA	+ NA	+ NA
Other Communist	2,800,000	2,950,000	2,630,000	2,500,000	2,000,000	1,950,000	1,850,000
Total Communist	86,565,000	85,845,000	85,115,000	84,600,000	84,100,000	81,370,000	79,250,000
Total World	648,524,712	670,708,750	670,189,406	669,302,500	698,667,400	700,141,060	697,449,600

* Brunei includes Malaysia through 1975.
+ Included in Other Communist.

Data from Oil & Gas Journal Energy Database.
Source: Oil & Gas Journal

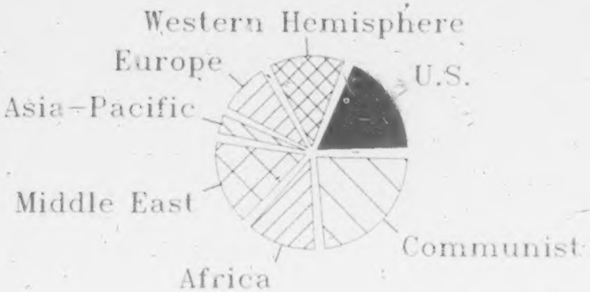
Worldwide Crude Oil Reserves

January 1

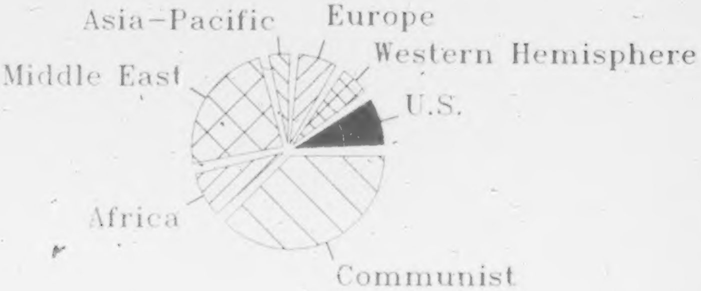


Source: OGJ

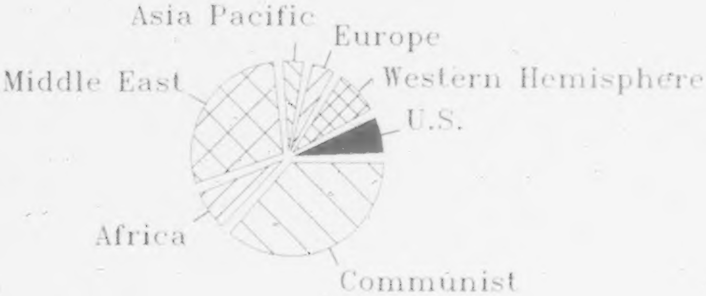
Worldwide Natural Gas Reserves
January 1



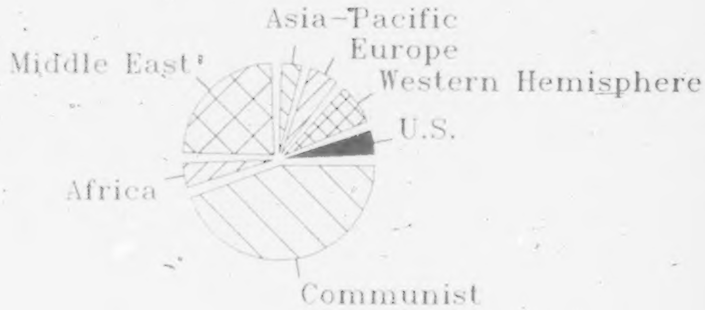
1970
1,498.5 Tcf



1976
2,232.1 Tcf



1980
2,573.8 Tcf



1987
3,626.0 Tcf

Source: OGJ

Worldwide Natural Gas Reserves
By Country
Estimated at January 1
Billions of cubic feet

	1967	1968	1969	1970	1971	1972	1973	1974	1975
United States	**287,000**	**292,596**	**294,300**	**283,000**	**265,000**	**269,596**	**271,455**	**247,310**	**250,000**
Canada	**45,000**	**48,000**	**46,500**	**50,650**	**60,451**	**54,376**	**55,000**	**50,299**	**52,500**
Argentina	8,000	7,960	8,500	8,000	8,800	7,600	8,800	8,000	7,500
Bahamas	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bolivia	5,000	4,050	5,000	100,000	5,000	5,000	5,000	10,000	11,000
Brazil	500	877	1,000	5,000	6,000	5,000	918	921	914
Chile	2,000	3,530	3,000	2,500	2,000	2,200	5,000	3,400	2,800
Colombia	3,500	4,030	3,500	3,000	2,800	2,500	2,400	2,500	4,000
Ecuador	50	65	150	150	5,000	6,000	500	5,000	5,000
Guatemala	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mexico	13,500	11,596	11,500	12,000	10,000	11,500	11,500	11,000	15,000
Peru	1,000	2,012	1,750	2,500	3,000	2,500	3,000	3,500	5,000
Trinidad & Tobago	1,000	1,211	1,000	5,000	3,500	5,000	7,500	5,000	6,000
Venezuela	30,000	31,770	27,500	25,000	27,000	25,400	34,600	42,000	43,000
Latin America	**64,550**	**67,101**	**62,900**	**163,150**	**73,100**	**72,700**	**79,218**	**91,321**	**100,214**
Western Hemisphere	**396,550**	**407,697**	**403,700**	**496,800**	**398,551**	**396,672**	**405,673**	**388,930**	**402,714**
Austria	960	965	800	1,000	431	550	500	589	953
Denmark	NA	NA	NA	NA	NA	500	1,800	1,800	500
France	7,000	8,500	8,500	10,600	7,200	6,900	6,800	6,500	5,800
Germany, West	7,800	8,500	10,200	12,100	11,900	14,000	12,700	12,308	11,473
Greece	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ireland	NA	NA	NA	NA	NA	NA	NA	NA	NA
Italy	4,422	5,500	6,500	6,300	5,000	6,000	6,100	5,300	12,000
Netherlands	57,500	82,000	82,176	82,300	83,000	83,000	88,000	92,000	94,800
Norway	NA	NA	NA	NA	3,000	10,000	15,000	23,000	24,700
Spain	NA	NA	NA	NA	NA	500	500	500	600
Switzerland	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turkey	NA	500	200	200	190	170	150	200	250
United Kingdom	10,000	25,000	30,000	35,000	36,000	40,000	45,000	50,000	50,000
Western Europe	**87,682**	**130,965**	**138,376**	**147,500**	**146,721**	**161,620**	**176,550**	**192,197**	**201,076**
Afghanistan	2,400	5,000	5,240	5,100	5,000	4,900	5,000	4,900	3,530
Australia	5,000	8,000	16,000	16,000	12,600	24,800	36,236	37,700	38,000
Bangladesh	NA	NA	NA	NA	NA	NA	8,000	8,000	10,000
Brunei	* 500	* 700	* 650	* 5,000	* 6,000	* 7,500	* 10,000	* 20,000	* 22,000
Burma	150	150	125	100	80	100	120	200	150
India	756	1,500	1,500	2,000	1,800	1,500	2,300	2,000	2,500
Indonesia	2,500	2,500	2,500	2,300	3,000	1,500	5,500	15,000	15,000
Japan	200	500	250	600	550	400	400	700	1,700
Malaysia	* NA	* NA	* NA	* NA	* NA	* NA	* NA	* NA	* NA
New Zealand	444	450	500	500	6,500	6,000	17,000	15,000	5,000
Pakistan	20,300	20,300	25,000	35,000	20,000	19,500	16,000	10,120	16,000
Papua, New Guinea	NA	NA	NA	NA	NA	NA	NA	NA	NA
Philippines	NA	NA	NA	NA	NA	NA	180	180	0
Taiwan	200	950	959	900	800	600	500	400	1,000
Thailand	NA	NA	NA	NA	NA	NA	NA	NA	1,000
Asia-Pacific	**32,450**	**40,050**	**52,724**	**67,500**	**56,330**	**69,800**	**101,236**	**114,200**	**115,880**

Worldwide Natural Gas Reserves
By Country
Estimated at January 1
Billions of cubic feet

	1967	1968	1969	1970	1971	1972	1973	1974	1975
Abu Dhabi	7,500	8,000	7,500	10,000	9,500	10,000	12,000	12,500	200,000
Bahrain	100	100	100	1,000	5,000	5,000	5,000	4,000	6,600
Dubai	NA	NA	500	500	750	1,000	1,000	1,000	1,500
Iran	109,500	109,500	100,000	100,000	214,000	200,000	200,000	270,000	330,000
Iraq	20,000	20,000	20,000	19,000	18,500	22,000	25,000	22,000	27,500
Israel	70	70	75	75	72	60	50	25	20
Kuwait	40,000	34,500	39,100	39,000	38,000	35,000	33,000	32,500	32,000
Neutral Zone	3,500	3,500	4,000	3,500	8,000	8,000	7,500	8,000	7,500
North Yemen	0	0	0	0	0	0	0	0	0
Oman	NA	1,500	1,500	1,500	2,000	2,000	1,750	2,000	2,100
Qatar	7,500	7,500	7,300	10,000	8,000	8,000	8,000	8,000	8,000
Ra's al Khaymah	NA	NA	NA	NA	NA	NA	NA	NA	NA
Saudi Arabia	26,400	35,000	43,000	50,000	49,500	52,000	50,000	50,900	55,000
Sharjah	NA	NA	NA	NA	NA	NA	NA	1,500	1,500
Syria	500	500	500	500	750	700	700	700	700
Middle East	215,070	220,170	223,575	235,075	354,072	343,760	344,000	413,125	672,420
Algeria	140,000	140,000	135,000	150,000	141,000	106,500	105,000	105,945	229,000
Angola-Cabinda	100	150	625	625	1,000	1,500	1,000	1,500	1,400
Cameroon	NA	NA	NA	NA	NA	NA	NA	NA	NA
Congo	NA	NA	NA	NA	NA	NA	NA	1,000	1,000
Egypt	530	1,300	2,800	5,000	5,000	7,500	7,500	4,200	3,500
Gabon	5,000	5,000	4,500	5,000	7,000	6,500	7,000	6,500	7,000
Ghana	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ivory Coast	NA	NA	NA	NA	NA	NA	NA	NA	NA
Libya	7,000	15,000	20,000	30,000	30,000	29,500	27,500	27,000	26,500
Morocco	25	23	20	18	16	18	15	25	24
Mozambique	1,000	1,000	1,000	1,000	NA	NA	NA	NA	NA
Nigeria	4,000	4,000	3,900	5,000	6,000	40,000	40,000	40,000	45,000
South Africa	NA	NA	NA	500	500	NA	NA	NA	NA
Sudan	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tanzania	NA	NA	NA	NA	NA	NA	0	0	0
Tunisia	500	750	500	1,000	1,000	1,500	1,000	1,500	1,500
Zaire	NA	NA	NA	NA	NA	NA	NA	50	50
Africa	158,155	167,223	168,345	198,143	191,516	193,018	189,015	187,720	314,974
Eastern Hemisphere	493,357	558,408	583,020	648,218	748,639	768,198	810,801	907,242	1,304,350
Total Non-Communist	889,907	966,105	986,720	1,145,018	1,147,190	1,164,870	1,216,474	1,296,172	1,707,064
China	NA	NA	NA	NA	NA	NA	NA	NA	NA
U.S.S.R.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Yugoslavia	900	3,500	3,000	3,500	1,200	1,800	2,000	1,800	2,000
Other Communist	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Communist	150,900	219,000	346,000	353,500	441,200	559,800	666,400	737,200	848,000
Total World	1,040,807	1,185,105	1,332,720	1,498,518	1,588,390	1,724,670	1,882,874	2,033,372	2,555,064

Worldwide Natural Gas Reserves
By Country
Estimated at January 1
Billions of cubic feet

	1976	1977	1978	1979	1980	1981	1982	1983	1984
United States	215,000	220,000	210,000	205,000	194,000	191,000	198,000	204,000	198,000
Canada	53,400	56,000	58,000	59,000	85,500	87,300	89,900	97,000	90,500
Argentina	7,200	6,800	8,120	12,000	15,200	22,000	23,400	25,200	24,420
Bahamas	NA	300	0	0	0	1	1	1	NA
Bolivia	10,800	5,000	5,000	6,000	5,400	4,200	5,400	5,700	4,900
Brazil	927	900	1,200	1,500	1,500	1,500	1,848	2,330	2,669
Chile	2,300	2,000	2,000	2,500	2,500	2,500	2,620	2,515	2,400
Colombia	4,000	5,000	6,360	4,800	5,000	6,000	4,362	4,580	4,300
Ecuador	5,000	12,000	5,000	4,000	4,000	4,000	4,300	4,100	3,526
Guatemala	NA	NA	NA	NA	NA	10	40	35	33
Mexico	12,000	12,000	30,000	32,000	59,000	64,500	75,350	75,850	75,352
Peru	2,260	2,200	1,300	1,150	1,100	1,100	1,202	1,201	1,150
Trinidad & Tobago	4,000	3,425	8,500	8,000	8,000	1,200	10,800	11,000	13,100
Venezuela	42,000	40,700	41,000	41,000	42,800	42,000	47,000	54,079	54,546
Latin America	90,487	90,325	108,480	112,950	144,500	149,011	176,323	186,591	186,396
Western Hemisphere	358,887	366,325	376,480	376,950	424,000	427,311	464,223	487,591	474,896
Austria	775	705	490	420	406	365	345	337	530
Denmark	500	700	1,700	2,500	2,820	4,000	2,000	2,300	2,887
France	5,300	5,000	4,800	6,500	6,300	6,000	2,720	2,700	2,422
Germany, West	8,300	7,500	7,300	6,300	6,350	6,000	6,180	6,319	6,800
Greece	8,000	9,000	4,000	4,000	4,000	4,000	3,800	3,500	3,470
Ireland	1,000	1,000	1,000	1,000	1,000	950	860	NA	700
Italy	10,000	6,600	8,300	8,000	3,500	3,500	3,650	4,320	4,340
Netherlands	70,000	61,900	60,000	62,000	59,500	62,000	55,700	51,920	50,050
Norway	25,000	18,500	20,000	24,000	23,500	42,700	49,370	58,000	58,800
Spain	500	500	200	200	2,000	3,500	25	1,940	2,225
Switzerland	NA	NA	NA	NA	NA	NA	NA	NA	4
Turkey	538	540	540	500	500	490	550	545	1,010
United Kingdom	50,000	30,000	29,000	27,000	25,000	24,800	26,000	25,400	25,100
Western Europe	179,913	140,945	137,330	142,420	134,876	158,305	151,200	157,281	158,338
Afghanistan	3,500	2,750	2,600	NA	NA	NA	NA	NA	NA
Australia	32,500	32,300	32,000	31,000	31,000	30,000	18,700	17,768	17,682
Bangladesh	10,000	8,000	8,000	8,000	8,000	8,000	7,000	7,000	7,000
Brunei	8,700	8,400	8,250	8,000	7,700	7,300	7,100	6,800	7,050
Burma	160	150	150	150	135	180	170	190	180
India	2,400	3,500	3,500	3,500	9,300	12,000	12,430	14,508	14,826
Indonesia	15,000	24,000	24,000	24,000	24,000	23,500	27,400	29,600	30,200
Japan	1,900	2,100	525	500	600	500	800	720	900
Malaysia	15,000	15,000	17,000	17,000	17,000	15,000	19,000	34,000	48,000
New Zealand	5,000	6,190	6,000	6,000	6,000	6,100	6,020	5,545	5,533
Pakistan	16,400	15,820	15,500	16,000	15,800	15,100	16,400	18,540	15,800
Papua, New Guinea	NA	NA	NA	NA	NA	NA	NA	NA	NA
Philippines	0	0	0	0	0	10	16	16	14
Taiwan	1,000	800	700	700	650	600	580	560	550
Thailand	0	1,000	4,500	5,000	8,000	8,000	12,000	11,000	8,500
Asia-Pacific	111,560	120,010	122,725	119,850	128,185	126,290	127,816	146,247	156,235

Worldwide Natural Gas Reserves
By Country
Estimated at January 1
Billions of cubic feet

	1976	1977	1978	1979	1980	1981	1982	1983	1984
Abu Dhabi	20,000	20,000	20,000	20,000	19,000	20,000	19,500	19,260	20.500
Bahrain	5,500	3,000	3,000	7,000	9,000	9,000	8,600	7,890	7,400
Dubai	1,500	1,500	1,500	1,600	1,500	775	750	4,320	4,320
Iran	329,500	330,000	500,000	500,000	490,000	485,000	484,000	482,500	480,000
Iraq	27,100	27,000	28,000	27,800	27,500	27,450	27,300	28,800	29,000
Israel	20	20	20	60	100	100	90	85	10
Kuwait	31,800	31,700	31,500	31,300	31,000	30,800	30,500	29,900	31,000
Neutral Zone	7,500	5,000	5,000	5,000	5,000	4,800	8,300	8,380	8,307
North Yemen	0	0	0	0	0	0	0	0	0
Oman	2,000	2,000	2,000	2,000	2,000	2,500	2,700	2,690	2,810
Qatar	7,500	27,500	40,000	40,000	60,000	60,000	60,000	62,000	62,000
Ra's al Khaymah	NA	NA	NA	NA	NA	NA	NA	NA	400
Saudi Arabia	103,000	86,000	85,000	93,900	93,230	110,000	114,000	117,000	121,000
Sharjah	1,450	1,000	0	0	0	0	3,000	5,000	6,000
Syria	1,240	1,200	3,100	1,500	1,500	1,500	3,200	1,260	1,290
Middle East	**538,110**	**535,920**	**719,120**	**730,160**	**739,830**	**751,925**	**761,940**	**769,185**	**774,037**
Algeria	126,000	125,800	125,000	105,000	132,000	131,500	130,900	111,250	110,180
Angola-Cabinda	1,500	1,500	1,500	1,200	1,175	1,050	1,030	1,470	1,550
Cameroon	NA	NA	NA	NA	NA	NA	4,600	4,450	4,200
Congo	1,000	7	10	2,260	2,200	2,000	2,500	2,700	2,150
Egypt	4,000	2,800	3,200	3,000	3,000	2,970	2,960	7,180	7,100
Gabon	2,500	2,500	2,450	2,400	500	500	490	485	500
Ghana	NA	NA	NA	NA	NA	NA	NA	NA	4
Ivory Coast	NA	NA	NA	NA	NA	NA	37	3,040	3,020
Libya	26,300	25,800	25,700	24,200	24,000	23,800	23,200	21,500	21,350
Morocco	22	20	44	30	25	NA	NA	NA	NA
Mozambique	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nigeria	44,300	44,000	43,000	42,000	41,400	41,000	40,500	32,400	34,800
South Africa	NA	NA	NA	NA	NA	NA	NA	400	400
Sudan	NA	NA	100	100	NA	NA	NA	NA	NA
Tanzania	0	0	50	50	0	0	0	200	200
Tunisia	1,480	6,600	6,400	6,000	6,000	5,600	5,400	4,300	4,150
Zaire	50	50	50	50	50	50	50	48	40
Africa	**207,152**	**209,077**	**207,504**	**186,290**	**210,350**	**208,470**	**211,667**	**189,423**	**189,644**
Eastern Hemisphere	**1,036,735**	**1,005,952**	**1,186,679**	**1,178,720**	**1,213,241**	**1,244,990**	**1,252,423**	**1,262,136**	**1,278,254**
Total Non-Communist	**1,395,622**	**1,372,277**	**1,563,159**	**1,555,670**	**1,637,241**	**1,672,301**	**1,716,646**	**1,749,727**	**1,753,150**
China	NA	25,000	25,000	25,000	25,000	24,500	24,400	29,800	30,300
U.S.S.R.	NA	918,000	920,000	910,000	900,000	920,000	1,160,000	1,240,000	1,400,000
Yugoslavia	1,500	1,500	1,400	1,340	1,000	1,500	+ NA	+ NA	+ NA
Other Communist	NA	10,000	10,000	10,000	10,000	9,400	10,300	14,000	16,500
Total Communist	**836,500**	**954,500**	**956,400**	**946,340**	**936,000**	**955,400**	**1,194,700**	**1,283,800**	**1,446,800**
Total World	**2,232,122**	**2,326,777**	**2,519,559**	**2,502,010**	**2,573,241**	**2,627,701**	**2,911,346**	**3,033,527**	**3,199,950**

Worldwide Natural Gas Reserves
By Country
Estimated at January 1
Billions of cubic feet

	1985	1986	1987
United States	198,000	197,000	185,400
Canada	92,300	99,700	99,600
Argentina	24,628	23,588	23,000
Bahamas	NA	NA	NA
Bolivia	4,270	4,700	4,840
Brazil	2,840	3,060	3,200
Chile	2,360	2,300	4,200
Colombia	3,786	4,130	4,000
Ecuador	3,000	4,090	4,050
Guatemala	30	30	30
Mexico	77,000	76,954	76,500
Peru	1,100	852	850
Trinidad & Tobago	10,550	10,500	10,400
Venezuela	55,367	59,067	59,000
Latin America	184,931	189,271	190,070
Western Hemisphere	475,231	485,971	475,070
Austria	530	520	420
Denmark	3,500	3,900	3,400
France	1,500	1,400	1,230
Germany, West	5,957	6,424	6,500
Greece	3,440	3,000	NA
Ireland	800	900	1,940
Italy	4,360	5,000	8,000
Netherlands	68,482	67,070	70,400
Norway	89,000	104,000	103,180
Spain	700	700	800
Switzerland	4	3	0
Turkey	600	490	460
United Kingdom	27,800	33,000	33,400
Western Europe	206,673	226,407	229,730
Afghanistan	NA	NA	NA
Australia	17,850	18,220	18,680
Bangladesh	7,000	11,800	12,710
Brunei	7,300	7,400	7,060
Burma	170	160	9,460
India	15,000	16,880	17,550
Indonesia	40,000	35,600	49,440
Japan	720	1,100	1,090
Malaysia	50,000	52,700	49,440
New Zealand	5,438	5,515	5,690
Pakistan	15,760	15,400	18,700
Papua, New Guinea	500	500	500
Philippines	12	11	10
Taiwan	540	811	910
Thailand	5,900	5,400	7,400
Asia-Pacific	166,190	171,497	198,640

Worldwide Natural Gas Reserves
By Country
Estimated at January 1
Billions of cubic feet

	1985	1986	1987
Abu Dhabi	20,750	20,500	90,000
Bahrain	7,260	7,103	7,000
Dubai	4,320	4,400	4,400
Iran	478,600	470,000	450,000
Iraq	28,800	29,000	28,000
Israel	8	10	10
Kuwait	32,500	32,500	35,000
Neutral Zone	8,290	8,210	12,400
North Yemen	0	0	600
Oman	7,377	6,000	7,500
Qatar	150,000	148,000	152,000
Ra's al Khaymah	400	400	1,200
Saudi Arabia	123,270	121,000	123,990
Sharjah	6,500	7,500	9,000
Syria	1,280	1,240	4,200
Middle East	869,355	855,863	925,300
Algeria	109,100	107,080	106,000
Angola-Cabinda	1,650	1,870	1,800
Cameroon	4,150	3,880	3,800
Congo	2,118	2,470	2,500
Egypt	7,000	7,060	8,900
Gabon	550	420	500
Ghana	4	4	0
Ivory Coast	3,000	2,118	3,400
Libya	21,200	21,390	21,180
Morocco	NA	NA	130
Mozambique	NA	NA	NA
Nigeria	35,600	47,000	47,[illegible]0
South Africa	350	NA	NA
Sudan	NA	NA	NA
Tanzania	200	800	3,000
Tunisia	2,224	4,200	3,200
Zaire	30	30	30
Africa	187,176	198,322	201,440
Eastern Hemisphere	1,429,394	1,452,089	1,555,110
Total Non-Communist	1,904,625	1,938,060	2,030,180
China	30,900	30,000	30,000
U.S.S.R.	1,450,000	1,500,000	1,550,000
Yugoslavia	+ NA	+ NA	+ NA
Other Communist	16,500	16,000	15,800
Total Communist	1,497,400	1,546,000	1,595,800
Total World	3,402,025	3,484,060	3,625,980

* Brunei includes Malaysia through 1975.

+ Yugoslavia included in Other Communist.

Data from Oil & Gas Journal Energy Database.
Source: Oil & Gas Journal

Notes

Refining

Activity in the refining sector of the industry has gone through a substantial change over the past ten years. The level of activity is directly related to the demand for petroleum products and therefore greatly influenced by shifting prices. Input to refineries parallels the consumption of petroleum products over time.

While activity is a mirror image of demand and determined greatly by outside forces such as the level of economic activity and prices, refining capacity is determined by investment decisions based upon future expectations. During periods of expected expansion the decisions to build additional capacity or upgrade existing capacity must be made well in advance of the expected need. Additional refining capacity requires a substantial capital investment. Profitable operation of a refinery requires a high utilization rate in order to reduce unit operating costs. Both the worldwide and domestic refining industries face the need for forecasts of future demand in order to make needed capital investments to meet required capacity.

The refining industry ran into an unanticipated cycle in the late 1970's. The downward demand response to the huge price increases was not expected. Forecasts had almost unanimously predicted demand would push upward, a continuation of a trend that started in 1946 and had continued without pause. Because of these expectations and investments in progress, refining capacity, both in the U.S. and worldwide, continued to expand, even as demand turned downward.

Capacity continued to expand until 1981 even though demand for petroleum products had peaked in the world in 1979 and in the U.S. in 1978. This resulted in substantial volumes of excess capacity and a sharp decline in refinery utilization rates. Refinery profits fell as utilization rates decreased.

The refining industry has adjusted in recent years by reducing capacity. An increase in demand has helped bring capacity more in line with demand. But many problems still face the refining industry. Utilization rates have climbed to more profitable levels. Net back pricing helped boost refining margins in 1986. As prices have risen in 1987, net back pricing has largely been abandoned. This has left refiners with rising crude costs and a competitive product market, resulting in shrinking margins.

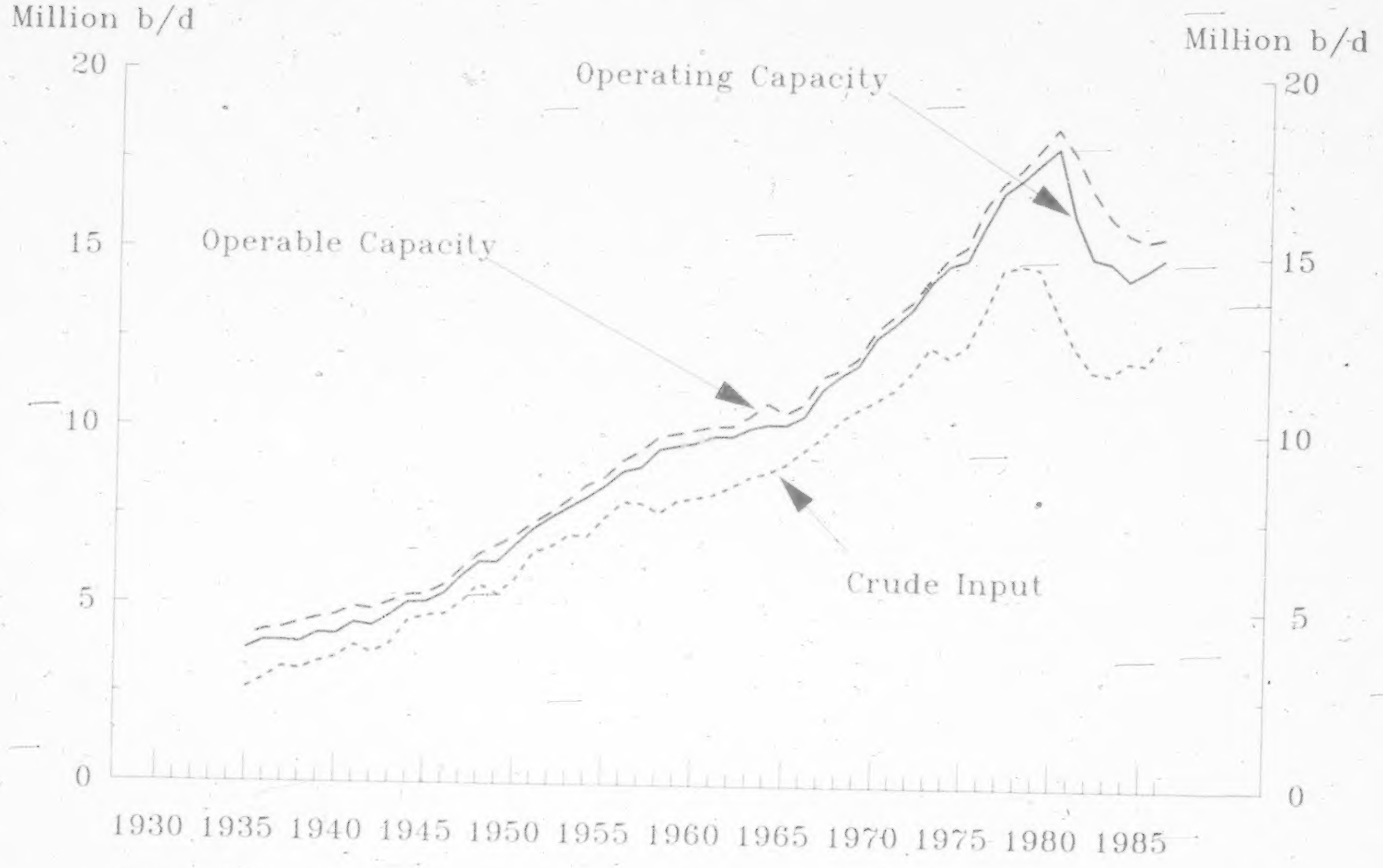
Many problems still face the refining industry. The excess capacity issue has not been entirely resolved. Many less developed areas of the world continue to add to refining capacity to meet domestic demand and as a possible source of export revenue. Increased export refining capacity in the Middle East compounds the problem.

This chapter of the Energy Statistics Sourcebook contains data tracking this recent cycle in the refining industry. Detailed data are provided on refinery production and yields as well as capacity, input and utilization. Data on refining margins in the U.S. are also included. Since data are provided for the worldwide industry the analyst can track geographical patterns in refining capacity and utilization. Data on output and yields allow the analyst to look at the changes in the product mix. This chapter includes all of the key indicators necessary for analyzing the refining industry.

Refining

Refinery Capacity & Input, Total U.S., Annual, 141
Operable Capacity & Utilization, Total U.S., Monthly, 142
Crude Oil Input to Refineries, Total U.S, Monthly, 143
Total Input to Refineries, Total U.S., Monthly, 144
Refinery Processing Gain, Total U.S., Monthly, 145
Average Percentage Product Yields, Total U.S., Annual, 146
Total Refinery Production (Output), Total U.S., Monthly, 147
Motor Gasoline Production, Total U.S., Monthly, 148
Motor Gasoline Production, By Type, Total U.S., Monthly, 149
Jet Naphtha Production, Total U.S., Monthly, 150
Jet Kerosine Production, Total U.S., Monthly, 151
Kerosine Production, Total U.S., Monthly, 152
Distillate Fuel Oil Production, Total U.S., Monthly, 153
Residual Fuel Oil Production, Total U.S., Monthly, 154
Liquified Petroleum Gases Production, Total U.S., Monthly, 155
Refinery Margins, U.S. Gulf Coast, Monthly, Quarterly, Annual, 157
Nelson Refinery Operating Index, Annual, 158
Nelson Refinery Operating Index, Monthly, 159
Nelson Refinery Construction Index, Annual, 161
Nelson Refinery Construction Index, Monthly, 162
Worldwide Crude Oil Refinery Runs, By Region, Annual, 164
Worldwide Refinery Utilization Rate, By Region, Annual, 165
Refining Capacity, By Continent, Annual, 167
Refining Capacity, By Country, Annual, 168
Volume of Refined Products Produced, OPEC, Annual, 174

U.S. Refinery Capacity and Crude Input



Source: BOM, EIA

U.S. Refinery Capacity and Input
Thousands of barrels per day

	Operable Refinery Capacity Dec. 31	Operating Refinery Capacity Dec. 31	Crude Input to Refineries	Total Input to Refineries		Operable Refinery Capacity Dec. 31	Operating Refinery Capacity Dec. 31	Crude Input to Refineries	Total Input to Refineries
1923	2,814.3	2,480.9	1,592.4	1,610.8	1955	8,632.4	8,380.8	7,480.0	7,826.3
1924	3,853.8	2,511.8	1,758.8	1,799.1	1956	9,123.7	8,808.8	7,937.4	8,306.5
1925	2,853.0	2,562.4	2,027.2	2,081.0	1957	9,407.7	8,939.9	7,919.0	8,330.2
1926	3,061.0	2,834.3	2,135.0	2,210.8	1958	9,819.9	9,450.7	7,642.2	8,018.3
1927	3,250.4	3,036.1	2,270.8	2,358.9	1959	9,901.4	9,543.3	7,993.6	8,413.7
1928	3,509.5	3,325.9	2,495.3	2,591.6	1960	10,010.1	9,629.7	8,067.0	8,522.8
1929	3,765.6	3,634.8	2,706.0	2,833.3	1961	10,105.2	9,812.3	8,184.0	8,648.2
1930	3,942.7	3,706.6	2,541.0	2,659.2	1962	10,118.3	9,814.8	8,409.9	8,910.9
1931	4,014.6	3,625.0	2,451.0	2,547.2	1963	10,385.4	10,063.2	8,686.7	9,207.9
1932	3,889.5	3,445.1	2,240.4	2,312.4	1964	10,774.6	10,161.3	8,806.9	9,389.7
1933	3,918.2	3,553.6	2,359.6	2,429.0	1965	10,492.7	10,171.2	9,043.4	9,661.7
1934	4,058.5	3,614.7	2,453.8	2,531.0	1966	10,759.6	10,412.4	9,444.4	10,089.9
1935	4,117.1	3,749.8	2,646.0	2,731.0	1967	11,532.9	11,172.7	9,815.3	10,486.0
1936	4,294.9	3,966.6	2,919.6	3,012.0	1968	11,739.5	11,575.8	10,312.5	11,030.3
1937	4,351.2	3,970.2	3,242.3	3,350.2	1969	12,074.3	11,882.4	10,629.1	11,365.5
1938	4,508.6	3,933.8	3,191.8	3,301.3	1970	12,860.2	12,658.3	10,869.9	11,753.9
1939	4,628.7	4,196.7	3,391.3	3,499.9	1971	13,292.5	13,034.8	11,199.5	12,116.2
1940	4,~~719.0~~	4,180.6	3,536.0	3,644.0	1972	13,671.4	13,482.9	11,696.3	12,691.1
1941	4,956.6	4,496.8	3,860.8	3,991.8	1973	14,361.5	14,220.3	12,430.8	13,400.6
1942	4,902.0	4,409.0	3,655.1	3,810.1	1974	14,960.7	14,696.8	12,133.5	13,017.9
1943	5,093.0	4,709.4	3,917.1	4,084.8	1975	15,236.6	14,867.5	12,442.3	13,225.2
1944	5,301.2	5,077.7	4,551.0	4,734.7	1976	16,398.4	15,861.7	13,416.0	14,200.1
1945	5,315.9	5,086.2	4,711.1	4,903.7	1977	17,047.7	16,793.7	14,602.4	15,349.3
1946	5,569.5	5,336.4	4,740.3	4,912.5	1978	17,440.9	17,147.9	14,739.0	15,470.1
1947	6,034.3	5,825.6	5,074.6	5,268.3	1979	17,991.1	17,610.4	14,647.6	15,236.1
1948	6,439.0	6,230.5	5,596.6	5,804.8	1980	18,620.5	18,051.3	13,481.3	14,024.7
1949	6,696.3	6,223.0	5,326.6	5,560.8	1981	17,889.7	16,103.6	12,470.5	13,482.4
1950	6,963.6	6,701.8	5,739.4	5,998.6	1982	16,859.3	14,960.6	11,773.6	12,860.5
1951	7,332.9	7,161.4	6,494.3	6,766.2	1983	16,137.1	14,837.7	11,685.1	12,650.2
1952	7,638.7	7,481.7	6,670.1	6,954.0	1984	15,658.8	14,360.6	12,044.2	13,125.6
1953	8,006.9	7,782.1	6,999.6	7,304.5	1985	15,459.0	14,638.5	12,002.0	13,192.2
1954	8,420.6	8,069.2	6,957.7	7,279.8	1986	15,565.5	14,940.5	12,715.9	13,906.2

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Total Refinery Operable Capacity
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1980	17,830	18,196	18,215	18,213	18,249	18,254	18,281	18,305	18,478	18,413	18,424	18,477	**18,277.9**
1981	18,621	18,657	18,656	18,684	18,697	18,695	18,656	18,685	18,636	18,442	18,449	18,364	**18,603.5**
1982	17,890	17,844	17,800	17,767	17,778	17,261	17,203	17,171	17,001	17,221	17,193	17,076	**17,433.8**
1983	16,859	16,875	16,855	16,855	16,856	16,838	16,842	16,742	16,296	16,320	16,349	16,342	**16,669.1**
1984	16,137	16,144	16,114	16,123	16,069	16,069	16,085	16,040	15,994	16,005	15,875	15,745	**16,033.3**
1985	15,659	15,559	15,582	15,640	15,658	15,669	15,670	15,734	15,728	15,733	15,730	15,687	**15,670.8**
1986	15,459	15,485	15,485	15,473	15,484	15,465	15,475	15,430	15,435	15,435	15,440	15,440	**15,458.8**

Refinery Capacity Utilization
Total U.S.
Percentage Utilized

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1980	82.1	79.9	76.8	75.7	74.8	77.0	74.5	72.7	73.6	70.6	73.0	75.5	**75.5**
1981	72.5	70.8	67.7	65.7	67.2	68.1	67.4	70.6	68.4	67.0	68.2	69.2	**68.6**
1982	67.0	65.1	65.5	66.2	68.8	74.9	74.9	71.0	73.9	70.6	70.6	69.7	**69.9**
1983	68.0	65.1	66.0	69.6	71.6	74.9	74.9	73.8	78.1	73.4	74.8	69.9	**71.7**
1984	72.9	76.0	74.9	74.9	77.4	77.3	75.7	78.2	78.0	75.9	77.2	76.0	**76.2**
1985	74.0	73.8	73.7	76.5	78.4	79.3	80.8	77.7	76.9	78.6	80.3	81.2	**77.6**
1986	81.4	77.9	75.9	81.5	86.0	86.3	84.1	86.8	85.5	82.6	83.7	83.6	**82.9**

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration

Crude Oil Input to Refineries
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	11,127.0	11,152.4	11,131.5	11,207.4	10,735.5	11,483.5	11,451.8	11,367.9	11,134.5	11,145.7	11,118.7	11,338.1	**11,199.5**
1972	11,388.2	11,356.3	11,345.3	11,184.4	11,477.6	11,841.2	11,885.3	11,915.4	12,112.1	11,870.9	11,851.3	12,112.7	**11,695.1**
1973	12,190.4	12,187.3	12,200.7	12,208.0	12,280.7	12,862.3	12,749.5	12,635.5	12,559.6	12,757.8	12,374.1	12,149.6	**12,429.6**
1974	11,490.5	11,102.3	11,355.1	11,823.0	12,333.3	12,697.1	12,811.0	12,644.5	12,123.7	12,285.6	12,331.6	12,518.8	**12,126.4**
1975	12,296.5	12,134.9	11,905.0	11,803.5	11,983.3	12,416.7	12,915.4	13,046.2	12,944.8	12,365.5	12,689.3	12,779.1	**12,440.0**
1976	12,560.4	12,833.6	12,877.2	12,727.0	12,919.9	13,799.2	13,900.9	13,888.0	13,716.2	13,319.2	14,101.3	14,333.0	**13,414.7**
1977	14,129.8	14,734.1	14,263.3	14,176.9	14,592.7	14,864.6	14,881.7	14,642.3	14,923.8	14,654.3	14,636.0	14,748.5	**14,604.0**
1978	14,149.7	13,969.0	14,148.3	13,885.7	14,995.8	14,692.9	14,910.6	15,196.4	15,084.9	15,004.5	15,336.2	15,421.4	**14,733.0**
1979	14,839.7	14,314.3	14,260.1	14,570.9	14,449.9	14,805.9	15,098.5	14,966.8	14,593.9	14,422.8	14,537.3	14,876.5	**14,644.7**
1980	14,301.1	14,187.4	13,709.3	13,484.1	13,326.0	13,704.5	13,264.4	12,984.1	13,312.8	12,771.9	13,118.5	13,647.6	**13,484.3**
1981	13,247.5	12,902.5	12,383.0	12,090.5	12,309.1	12,414.6	12,260.7	12,908.2	12,505.1	12,057.2	12,240.0	12,348.8	**12,472.3**
1982	11,598.7	11,236.3	11,275.9	11,392.2	11,805.5	12,493.8	12,446.0	11,871.2	12,145.8	11,749.1	11,723.5	11,514.2	**11,771.0**
1983	11,143.3	10,632.9	10,859.2	11,433.3	11,800.1	12,284.3	12,359.7	12,152.3	12,481.5	11,781.7	12,004.4	11,234.1	**11,680.6**
1984	11,586.9	12,157.2	11,926.5	11,890.9	12,246.7	12,255.0	12,028.5	12,345.8	12,271.2	11,977.5	12,108.0	11,754.9	**12,045.8**
1985	11,444.7	11,366.8	11,371.6	11,804.5	12,093.5	12,292.0	12,445.1	12,045.5	11,924.5	12,208.5	12,409.8	12,569.9	**11,998.0**
1986	12,373.5	11,917.8	11,651.9	12,512.4	13,278.8	13,261.2	12,947.0	13,286.8	13,096.9	12,635.9	12,830.8	12,777.3	**12,711.7**

Crude Oil Input to Refineries
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	344,936	312,266	345,078	336,222	332,799	344,505	355,007	352,405	334,034	345,516	333,561	351,480	**4,087,809**
1972	353,035	329,332	351,703	335,533	355,806	355,236	368,445	369,377	363,364	367,999	355,538	375,495	**4,280,863**
1973	377,903	341,244	378,221	366,239	380,702	385,869	395,236	391,699	376,789	395,491	371,224	376,637	**4,537,254**
1974	356,206	310,863	352,008	354,689	382,331	380,912	397,142	391,978	363,711	380,854	369,948	388,084	**4,428,726**
1975	381,193	339,777	369,056	354,104	371,481	372,502	400,376	404,433	388,344	383,329	380,679	396,152	**4,541,426**
1976	389,373	372,174	399,192	381,810	400,516	413,975	430,928	430,529	411,486	412,896	423,039	444,322	**4,910,240**
1977	438,023	412,555	442,162	425,308	452,374	445,937	461,333	453,912	447,713	454,283	439,081	457,202	**5,329,883**
1978	438,640	391,133	438,598	416,572	464,871	440,786	462,228	471,087	452,548	465,141	460,086	478,063	**5,379,753**
1979	460,031	400,800	442,064	437,126	447,948	444,178	468,053	463,971	437,817	447,107	436,120	461,173	**5,346,388**
1980	443,333	411,436	424,987	404,524	413,107	411,136	411,197	402,507	399,383	395,929	393,555	423,075	**4,934,169**
1981	410,672	361,270	383,872	362,716	381,583	372,437	380,083	400,155	375,153	373,772	367,200	382,812	**4,551,725**
1982	359,560	314,616	349,553	341,765	365,972	374,814	385,825	368,008	364,374	364,221	351,706	356,941	**4,297,355**
1983	345,442	297,722	336,634	343,000	365,803	368,529	383,152	376,722	374,445	365,232	360,131	348,256	**4,265,068**
1984	359,193	352,560	369,720	356,726	379,649	367,649	372,882	382,721	368,136	371,304	363,240	364,403	**4,408,183**
1985	354,785	318,271	352,520	354,136	374,900	368,760	385,799	373,409	357,735	378,464	372,294	389,668	**4,380,741**
1986	383,580	333,697	361,208	375,371	411,643	397,836	400,428	411,891	392,907	391,713	384,925	396,097	**4,641,296**

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Total Input to Refineries
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	12,201.4	12,204.4	11,990.9	11,766.1	11,495.5	12,307.3	12,335.4	12,391.8	12,112.0	11,989.7	12,078.1	12,524.2	**12,116.4**
1972	12,346.7	12,489.4	12,159.2	11,979.4	12,287.1	12,613.1	12,959.6	13,006.9	13,064.8	12,991.2	13,010.7	13,369.1	**12,689.8**
1973	13,388.5	13,151.6	12,833.4	12,879.9	13,160.2	13,861.5	13,816.6	13,778.8	13,476.9	13,718.1	13,404.3	13,314.0	**13,398.6**
1974	12,474.7	12,137.0	11,882.5	12,680.1	13,027.5	13,510.4	13,761.1	13,670.2	13,066.3	13,162.2	13,254.3	13,518.3	**13,012.0**
1975	13,388.5	12,886.0	12,569.6	12,410.8	12,454.0	14,266.0	13,743.3	13,743.3	13,649.4	13,209.1	13,440.2	13,700.5	**13,288.4**
1976	13,381.6	13,740.4	13,473.9	13,462.7	13,703.8	14,549.5	14,626.8	14,797.7	14,421.7	14,078.5	14,830.6	15,299.9	**14,198.9**
1977	15,130.6	15,631.0	14,906.3	14,862.3	15,106.4	15,492.4	15,645.5	15,521.9	15,543.0	15,389.1	15,480.2	15,510.1	**15,351.6**
1978	14,994.9	14,577.2	14,768.4	14,551.8	15,592.7	15,479.6	15,582.8	16,015.9	15,923.3	15,510.5	16,201.7	16,364.6	**15,463.6**
1979	15,564.4	15,029.5	14,926.8	14,965.6	15,087.7	15,304.4	15,522.3	15,500.6	15,083.6	15,033.7	15,148.6	15,631.3	**15,233.2**
1980	15,183.3	14,819.3	14,069.5	13,741.7	13,642.8	14,124.5	13,829.0	13,537.5	13,774.7	13,382.5	13,896.7	14,328.5	**14,027.5**
1981	14,450.0	13,744.2	13,281.7	13,054.6	13,123.5	13,307.4	13,266.5	13,818.5	13,675.6	13,086.5	13,407.0	13,582.5	**13,483.2**
1982	12,613.1	12,226.2	12,289.8	12,445.2	12,864.1	13,568.0	13,554.5	12,868.3	13,169.0	12,969.8	12,923.6	12,794.5	**12,857.2**
1983	12,044.2	11,550.1	11,628.4	12,223.5	12,712.0	13,204.9	13,312.1	13,049.2	13,505.6	12,760.5	13,278.1	12,479.3	**12,645.7**
1984	12,496.7	13,235.3	12,741.6	12,767.2	13,254.6	13,724.1	13,281.9	13,224.6	13,253.3	13,008.8	13,428.4	13,119.2	**13,128.0**
1985	12,323.1	12,393.9	12,301.0	12,902.1	13,324.2	13,537.1	13,669.7	13,650.1	13,068.3	13,410.0	13,702.5	13,962.0	**13,187.0**
1986	13,704.5	12,990.6	12,756.3	13,528.3	14,356.1	14,342.8	14,180.6	14,591.7	14,231.3	13,633.9	14,188.1	14,302.8	**13,900.6**

Total Input to Refineries
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	378,243	341,724	371,718	352,983	356,361	369,219	382,397	384,147	363,361	371,681	362,344	388,250	**4,422,428**
1972	382,747	362,193	376,934	359,381	380,901	378,392	401,748	403,213	391,943	402,728	390,321	414,443	**4,644,944**
1973	415,042	368,244	397,834	386,396	407,967	415,845	428,315	427,144	404,308	425,262	402,129	412,734	**4,891,220**
1974	386,715	339,836	368,358	380,404	403,853	405,312	426,595	423,775	391,990	408,027	397,628	419,067	**4,751,560**
1975	415,045	360,809	389,659	372,324	386,073	427,981	426,043	426,043	409,481	409,481	403,206	424,715	**4,850,860**
1976	414,831	398,473	417,690	404,482	424,818	436,485	453,432	458,729	432,650	436,435	444,917	474,297	**5,197,239**
1977	469,048	437,668	462,096	445,868	468,298	464,771	485,009	481,179	466,289	477,061	464,407	480,813	**5,602,507**
1978	464,841	408,162	457,820	436,555	483,373	464,387	483,067	496,494	477,700	480,824	486,051	507,303	**5,646,577**
1979	482,497	420,827	462,730	448,968	467,719	459,131	481,190	480,518	452,507	466,046	454,458	484,570	**5,561,161**
1980	470,682	429,761	436,155	412,251	422,926	423,736	428,699	419,662	413,240	414,856	416,901	444,182	**5,133,051**
1981	447,951	384,838	411,733	391,639	406,829	399,221	411,263	428,375	410,268	405,682	402,209	421,056	**4,921,064**
1982	391,007	342,334	380,984	373,355	398,786	407,039	420,190	398,917	395,070	402,065	387,708	396,630	**4,694,085**
1983	373,369	323,402	360,480	366,706	394,072	396,147	412,676	404,525	405,168	395,574	398,342	386,859	**4,617,320**
1984	387,398	383,825	394,990	383,015	410,894	411,723	411,739	409,964	397,599	403,274	402,852	406,695	**4,803,968**
1985	382,015	347,028	381,331	387,062	413,050	406,112	423,761	423,152	392,050	415,710	411,075	432,823	**4,815,169**
1986	424,841	363,738	395,445	405,849	445,039	430,284	439,599	452,342	426,939	422,651	425,643	443,386	**5,075,756**

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Refinery Processing Gain
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	412.7	388.6	363.0	425.1	320.6	355.2	360.7	418.5	393.1	387.4	357.6	402.3	**382.1**
1972	371.0	338.9	380.9	365.9	348.6	337.1	361.3	446.0	409.5	445.7	401.4	450.3	**388.0**
1973	457.7	409.9	401.7	373.5	533.4	493.9	470.8	470.3	458.4	503.1	430.2	431.7	**452.9**
1974	479.1	432.5	417.8	478.1	414.3	511.6	517.1	537.3	496.7	538.8	483.9	451.5	**479.9**
1975	518.8	438.3	420.7	381.1	411.9	432.3	431.1	445.5	528.0	513.1	494.6	498.4	**459.5**
1976	474.0	488.6	494.5	455.8	547.6	479.1	491.9	412.5	502.7	416.5	465.4	498.9	**477.3**
1977	537.5	513.9	514.6	478.1	435.6	467.3	553.7	580.7	506.2	551.6	575.0	575.4	**524.1**
1978	485.3	467.0	517.0	477.6	450.3	471.6	389.2	489.4	534.5	555.0	560.4	558.5	**496.3**
1979	441.9	462.1	430.7	430.6	517.8	589.5	538.3	585.2	584.0	519.0	598.8	625.5	**527.0**
1980	613.1	544.8	452.9	457.2	494.7	478.6	466.8	486.8	454.0	496.4	565.4	565.2	**506.3**
1981	497.7	543.7	508.9	490.5	522.5	485.6	539.9	535.5	516.6	533.0	576.3	616.7	**530.6**
1982	477.1	481.4	443.0	432.7	514.8	500.8	437.7	599.8	628.4	633.3	577.1	547.9	**522.9**
1983	484.6	490.3	450.6	449.1	523.7	503.9	467.6	488.6	504.5	519.4	543.4	429.4	**487.9**
1984	473.0	553.1	546.2	578.7	588.9	552.2	544.0	532.5	572.9	543.9	571.9	585.9	**553.6**
1985	526.6	508.3	494.4	527.9	515.4	600.8	601.8	613.4	545.9	571.5	561.9	616.1	**557.0**
1986	633.7	671.5	558.2	548.2	647.2	599.3	599.6	658.5	710.5	586.2	577.8	608.6	**616.6**

Refinery Processing Gain
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	12,793	10,881	11,252	12,753	9,939	10,655	11,183	12,975	11,792	12,010	10,728	12,472	**139,433**
1972	11,501	9,828	11,808	10,977	10,807	10,112	11,199	13,826	12,285	13,817	12,043	13,958	**142,161**
1973	14,188	11,476	12,452	11,205	16,536	14,817	14,596	14,579	13,752	15,596	12,907	13,384	**165,488**
1974	14,853	12,109	12,952	14,344	12,843	15,349	16,030	16,656	14,901	16,703	14,517	13,998	**175,255**
1975	16,084	12,272	13,043	11,434	12,768	12,970	13,365	13,812	15,841	15,905	14,839	15,449	**167,782**
1976	14,694	14,168	15,331	13,674	16,977	14,373	15,250	12,788	15,081	12,911	13,961	15,467	**174,675**
1977	16,663	14,390	15,954	14,343	13,503	14,020	17,165	18,002	15,187	17,100	17,251	17,837	**191,415**
1978	15,044	13,076	16,027	14,328	13,959	14,148	12,064	15,170	16,036	17,206	16,811	17,314	**181,183**
1979	13,700	12,938	13,352	12,917	16,051	17,686	16,686	18,141	17,520	16,090	17,965	19,391	**192,437**
1980	19,006	15,799	14,041	13,715	15,336	14,358	14,471	15,091	13,620	15,389	16,962	17,522	**185,310**
1981	15,428	15,223	15,775	14,715	16,198	14,567	16,736	16,601	15,499	16,524	17,288	19,118	**193,672**
1982	14,791	13,480	13,734	12,982	15,959	15,025	13,570	18,594	18,853	19,633	17,314	16,985	**190,920**
1983	15,024	13,727	13,970	13,472	16,235	15,116	14,495	15,146	15,135	16,102	16,301	13,310	**178,033**
1984	14,663	16,040	16,931	17,362	18,256	16,567	16,863	16,508	17,188	16,860	17,157	18,164	**202,559**
1985	16,325	14,232	15,327	15,836	15,976	18,025	18,656	19,015	16,377	17,718	16,857	19,099	**203,443**
1986	19,646	18,801	17,304	16,447	20,062	17,980	18,587	20,414	21,314	18,173	17,335	18,867	**224,930**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Average Percentage Product Yields
From U.S. Refineries
Percent

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
Asphalt & Road Oil	3.9	4.0	3.7	3.7	3.7	3.9	4.0	3.8	3.8	3.9	3.3	2.8	3.0
Distillate	22.9	22.5	22.2	22.1	21.7	22.4	22.0	22.2	22.5	21.8	21.3	21.8	22.4
Jet Fuel	5.7	6.2	7.5	8.3	8.2	7.5	7.4	7.2	6.8	6.8	7.0	6.8	6.6
Kerosine	2.8	2.9	2.7	2.7	2.6	2.3	2.1	1.8	1.7	1.3	1.2	1.1	1.2
LPG & Ethane	3.2	3.0	3.1	3.1	3.1	3.2	3.1	3.0	3.0	2.7	2.5	2.5	2.4
Lubricants	1.9	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.6	1.2	1.3	1.2
Motor Gasoline	44.0	44.4	44.0	43.9	44.8	45.3	46.2	46.2	45.6	45.9	46.5	45.5	43.4
Petrochemical Feedstocks	1.7	2.1	2.4	2.5	2.5	2.5	2.7	2.9	2.9	3.0	2.7	3.3	3.6
Petroleum Coke	2.5	2.5	2.5	2.5	2.6	2.7	2.6	2.8	2.9	2.8	2.8	2.6	2.5
Residual	8.1	7.6	7.7	7.2	6.8	6.4	6.6	6.8	7.7	8.7	9.9	10.3	12.0
Special Naphthas	0.9	0.9	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.8	0.6	0.7	0.6
Still Gas	4.1	3.9	3.9	4.0	4.1	4.1	3.8	3.9	3.9	3.9	3.9	3.7	3.6
Wax	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1
Miscellaneous Products	0.5	0.5	0.4	0.4	0.4	0.[illegible]	0.4	0.4	0.4	0.5	0.7	1.0	1.0
Processing Gain (-) or Loss (+)	-2.4	-2.5	-2.9	-3.0	-3.1	-3.2	-3.4	-3.3	-3.6	-3.9	-3.7	-3.5	-3.6
Total Yield	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

	1978	1979	1980	1981	1982	1983	1984	1985	1986
Asphalt & Road Oil	3.3	3.1	3.0	2.7	2.7	3.1	3.1	3.2	3.1
Distillate	21.4	21.5	19.7	20.5	21.5	20.5	21.5	21.6	21.2
Jet Fuel	6.6	6.9	7.4	7.6	8.1	8.7	9.3	9.8	10.0
Kerosine	1.0	1.3	1.0	0.9	0.9	0.9	0.9	0.8	0.7
LPG & Ethane	2.4	2.4	2.4	2.5	2.2	2.7	2.9	3.1	3.2
Lubricants	1.3	1.3	1.3	1.3	1.2	1.2	1.3	1.2	1.2
Motor Gasoline	44.1	43.0	44.5	44.8	46.2	47.4	46.5	45.6	45.7
Petrochemical Feedstocks	4.1	4.7	5.1	4.7	3.4	3.3	2.8	2.8	3.1
Petroleum Coke	2.5	2.6	2.7	3.1	3.4	3.5	3.5	3.7	3.8
Residual	11.3	11.5	11.7	10.4	8.8	7.1	7.1	7.1	6.7
Special Naphthas	0.7	0.6	0.7	0.6	0.4	0.5	0.4	0.4	0.4
Still Gas	3.7	3.8	4.0	4.3	4.6	4.6	4.5	4.7	4.9
Wax	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Miscellaneous Products	0.9	0.8	0.8	0.7	0.7	0.5	0.5	0.5	0.5
Processing Gain (-) or Loss (+)	-3.4	-3.6	-4.4	-4.2	-4.2	-4.1	-4.4	-4.6	-4.6
Total Yield	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Total Refinery Output (Production)
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	12,614.1	12,593.0	12,353.9	12,091.2	11,816.1	12,662.5	12,696.1	12,810.4	12,505.1	12,377.1	12,435.7	12,926.5	**12,490.1**
1972	12,717.7	12,828.3	12,540.1	12,345.3	12,635.7	12,950.1	13,320.9	13,452.9	13,474.3	13,436.9	13,412.1	13,819.4	**13,077.8**
1973	13,842.9	13,561.4	13,235.0	13,253.3	13,693.6	14,355.4	14,287.5	14,249.1	13,935.3	14,221.2	13,834.5	13,745.7	**13,851.3**
1974	12,953.8	12,569.5	12,300.3	13,158.3	13,441.8	13,688.4	14,278.2	14,207.5	13,563.0	13,701.0	13,738.2	13,969.8	**13,464.1**
1975	13,907.4	13,324.3	12,990.4	12,791.9	12,865.8	13,669.3	14,237.0	14,188.9	14,352.8	13,722.1	13,601.5	14,198.8	**13,654.2**
1976	13,855.6	14,227.6	13,968.4	13,938.5	14,251.5	15,028.6	15,118.8	15,210.2	14,924.4	14,495.0	15,295.9	15,798.8	**14,676.1**
1977	15,668.1	16,144.9	15,421.0	15,340.4	15,542.0	15,959.7	16,199.2	16,102.6	16,049.2	15,940.7	16,055.3	16,085.5	**15,875.7**
1978	15,480.2	15,044.2	15,285.4	15,029.4	16,043.0	15,951.2	15,972.0	16,417.5	16,457.9	16,065.5	16,762.1	16,923.2	**15,952.6**
1979	16,006.4	15,491.6	15,357.5	15,396.2	15,605.5	15,893.9	16,060.5	16,085.8	15,667.6	15,552.8	15,747.4	16,256.8	**15,760.2**
1980	15,783.1	15,469.4	14,702.8	14,318.8	14,187.5	14,724.6	14,426.5	14,057.2	14,446.2	13,907.9	14,518.8	14,957.5	**14,625.0**
1981	15,063.1	14,308.5	13,734.6	13,511.8	13,618.2	13,786.0	13,733.4	14,305.4	14,129.6	13,582.9	13,972.4	14,147.7	**13,991.1**
1982	13,110.8	12,769.9	12,798.7	12,935.7	13,386.6	14,053.5	14,094.4	13,403.8	13,685.6	13,502.9	13,499.9	13,411.2	**13,387.7**
1983	12,528.8	12,040.3	12,079.0	12,672.6	13,235.7	13,708.8	13,779.7	13,537.8	14,010.1	13,279.9	13,821.4	12,908.7	**13,133.6**
1984	12,969.7	13,788.4	13,287.8	13,345.9	13,843.5	14,276.3	13,825.9	13,757.2	13,826.2	13,552.7	14,000.3	13,705.1	**13,681.6**
1985	12,849.7	12,902.1	12,795.4	13,429.9	13,839.5	14,137.9	14,271.5	14,263.5	13,614.2	13,981.5	14,264.4	14,578.1	**13,744.0**
1986	14,338.3	13,662.1	13,314.5	14,076.5	15,003.3	14,942.1	14,780.2	15,250.2	14,941.4	14,220.1	14,765.9	14,911.4	**14,517.2**

Total Refinery Output (Production)
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	391,036	352,605	382,970	362,736	366,300	379,874	393,580	397,122	375,153	383,691	373,072	400,722	**4,558,861**
1972	394,248	372,021	388,742	370,358	391,708	388,504	412,947	417,039	404,228	416,545	402,364	428,401	**4,787,105**
1973	429,130	379,720	410,286	397,600	424,503	430,662	442,911	441,723	418,060	440,858	415,036	426,118	**5,056,607**
1974	401,568	351,945	381,310	394,748	416,696	410,651	442,625	440,431	406,891	424,730	412,145	433,065	**4,916,805**
1975	431,129	373,081	402,702	383,758	398,841	410,078	441,346	439,855	430,585	425,386	408,045	440,164	**4,984,970**
1976	429,525	412,601	433,021	418,156	441,795	450,858	468,682	471,517	447,731	449,346	458,878	489,764	**5,371,874**
1977	485,711	452,058	478,050	460,211	481,801	478,791	502,174	499,181	481,476	494,161	481,658	498,650	**5,793,922**
1978	479,885	421,238	473,847	450,883	497,332	478,535	495,131	508,944	493,736	498,030	502,862	524,618	**5,825,041**
1979	496,197	433,765	476,082	461,885	483,770	476,817	497,876	498,659	470,027	482,136	472,423	503,961	**5,753,598**
1980	489,276	448,614	455,788	429,565	439,811	441,739	447,223	435,774	433,386	431,145	435,565	463,681	**5,351,567**
1981	466,957	400,637	425,774	405,354	422,165	413,579	425,734	443,466	423,888	421,071	419,171	438,578	**5,106,374**
1982	406,435	357,557	396,759	388,070	414,984	421,606	436,926	415,518	410,569	418,589	404,996	415,748	**4,887,757**
1983	388,393	337,129	374,450	380,178	410,307	411,263	427,171	419,671	420,303	411,676	414,643	400,169	**4,795,353**
1984	402,061	399,865	411,921	400,377	429,150	428,290	428,602	426,472	414,787	420,134	420,009	424,859	**5,006,527**
1985	398,340	361,260	396,658	402,898	429,026	424,137	442,417	442,167	408,427	433,428	427,932	451,922	**5,018,612**
1986	444,487	382,539	412,749	422,296	465,101	448,264	458,186	472,756	448,243	440,824	442,978	462,253	**5,300,676**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Total Motor Gasoline Production
At Refineries, Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	5,930.9	5,904.2	5,786.4	5,629.3	5,574.6	5,997.1	6,167.0	6,282.3	6,134.3	6,018.3	6,052.4	6,318.0	**5,982.9**
1972	6,162.4	6,000.9	5,924.3	5,844.5	6,034.1	6,256.5	6,624.6	6,599.4	6,616.3	6,542.5	6,447.4	6,434.9	**6,290.7**
1973	6,351.5	6,865.3	6,160.6	6,387.2	6,724.3	6,999.7	6,993.0	6,886.7	6,626.6	6,628.0	6,382.1	6,105.8	**6,592.6**
1974	5,905.7	5,972.0	5,984.7	6,313.9	6,331.3	6,665.8	6,795.5	6,817.5	6,455.1	6,339.3	6,294.4	6,422.2	**6,358.1**
1975	6,511.0	6,278.8	6,072.7	6,048.7	6,129.2	6,672.0	7,005.5	6,874.0	6,825.2	6,412.1	6,604.8	6,788.8	**6,518.6**
1976	6,485.0	6,475.3	6,457.9	6,564.6	6,777.0	7,305.7	7,176.9	7,151.4	6,880.9	6,680.6	6,940.5	7,178.5	**6,839.5**
1977	6,934.2	6,817.0	6,864.0	6,968.0	6,947.6	7,145.9	7,248.4	7,189.8	7,060.7	6,931.8	7,125.2	7,147.1	**7,031.6**
1978	6,935.0	6,632.9	6,751.9	6,669.9	7,060.8	7,211.6	7,266.5	7,455.8	7,400.6	7,178.3	7,584.9	7,833.0	**7,165.1**
1979	7,262.6	6,937.0	6,659.1	6,786.7	6,806.2	7,015.6	7,017.8	6,900.2	6,640.6	6,500.2	6,689.2	7,003.4	**6,851.6**
1980	6,990.6	6,866.1	6,519.1	6,283.9	6,315.5	6,568.9	6,465.1	6,452.2	6,383.0	6,131.5	6,466.6	6,643.9	**6,507.2**
1981	6,715.3	6,308.4	6,213.4	6,113.7	6,121.6	6,220.0	6,404.6	6,610.9	6,564.2	6,426.1	6,563.5	6,585.7	**6,404.0**
1982	6,166.7	5,898.5	5,993.6	6,095.1	6,318.8	6,753.7	6,767.8	6,419.3	6,527.2	6,262.3	6,273.5	6,542.4	**6,334.9**
1983	6,062.8	5,845.4	5,902.4	6,197.8	6,395.4	6,652.8	6,704.9	6,535.4	6,609.0	6,186.9	6,632.1	6,306.8	**6,336.0**
1984	6,035.5	6,317.3	6,358.2	6,524.4	6,649.7	6,618.5	6,450.1	6,405.2	6,515.6	6,388.1	6,708.6	6,477.6	**6,454.1**
1985	5,926.0	5,914.2	6,071.8	6,344.2	6,564.4	6,779.8	6,787.5	6,814.1	6,298.5	6,356.1	6,480.2	6,651.1	**6,415.7**
1986	6,522.0	6,301.4	6,060.4	6,497.6	7,094.3	7,100.3	6,955.6	7,091.2	6,890.2	6,615.9	6,894.8	6,969.3	**6,749.4**

Total Motor Gasoline Production
At Refineries, Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	183,857	165,318	179,379	168,880	172,813	179,914	191,177	194,752	184,030	186,567	181,571	195,858	**2,184,116**
1972	191,034	174,026	183,653	175,336	187,058	187,695	205,362	204,581	198,488	202,819	193,422	199,483	**2,302,957**
1973	196,898	192,228	190,978	191,616	208,454	209,991	216,783	213,489	198,798	205,467	191,464	189,281	**2,405,447**
1974	183,078	167,215	185,527	189,417	196,269	199,974	210,659	211,342	193,653	196,519	188,832	199,087	**2,321,572**
1975	201,841	175,807	188,253	181,461	190,004	200,161	217,171	213,094	204,755	198,776	198,144	210,452	**2,379,919**
1976	201,035	187,784	200,194	196,938	210,087	219,170	222,483	221,692	206,427	207,099	208,215	222,533	**2,503,657**
1977	214,959	190,877	212,783	209,041	215,375	214,378	224,699	222,883	211,820	214,887	213,755	221,561	**2,567,018**
1978	214,985	185,720	209,310	200,098	218,885	216,348	225,262	231,131	222,018	222,527	227,548	242,824	**2,616,656**
1979	225,142	194,237	206,431	203,600	210,991	210,469	217,55[illegible]	213,905	199,219	201,507	200,677	217,105	**2,500,836**
1980	216,709	199,116	202,092	188,516	195,781	197,068	200,419	200,018	191,490	190,075	193,998	205,960	**2,381,242**
1981	208,175	176,636	192,615	183,411	189,771	186,601	198,544	204,937	196,925	199,209	196,906	204,157	**2,337,887**
1982	191,169	165,458	185,803	182,852	195,883	202,612	209,801	198,997	195,815	194,130	188,204	202,815	**2,313,239**
1983	187,948	163,670	182,973	185,935	198,257	199,583	207,851	202,597	198,270	191,795	198,964	195,511	**2,313,354**
1984	187,101	183,201	197,104	195,732	206,142	198,556	199,952	198,560	195,468	198,030	201,258	200,805	**2,361,909**
1985	183,706	165,598	188,225	190,326	203,497	203,393	210,414	211,236	188,955	197,040	194,407	206,184	**2,342,981**
1986	202,182	176,440	187,872	194,929	219,922	213,010	215,625	219,828	206,705	205,092	206,844	216,047	**2,464,496**

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Motor Gasoline Production
By Type, At Refineries, Total U.S.
Thousands of barrels per day

		January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1981:	Leaded	3,434.8	3,238.8	3,216.9	3,002.6	2,993.5	3,083.6	3,195.2	3,234.1	3,218.4	3,256.0	3,299.0	3,269.4	**3,203.5**
	Unleaded	3,277.6	3,067.0	2,994.3	3,108.7	3,125.8	3,133.9	3,206.8	3,373.7	3,343.5	3,168.0	3,262.0	3,312.7	**3,197.8**
1982:	Leaded	2,950.6	2,752.8	2,878.8	2,914.4	3,080.7	3,198.0	3,198.1	2,904.0	3,015.0	2,975.6	3,028.9	3,023.8	**2,993.4**
	Unleaded	3,212.6	3,141.4	3,111.7	3,177.3	3,235.2	3,552.8	3,566.4	3,511.7	3,509.0	3,284.0	3,241.6	3,514.4	**3,338.2**
1983:	Leaded	2,722.2	2,628.9	2,696.2	2,814.6	2,939.8	3,137.6	2,983.8	2,914.3	2,850.2	2,732.8	2,875.0	2,727.0	**2,835.2**
	Unleaded	3,340.6	3,216.5	3,206.1	3,383.3	3,455.6	3,515.2	3,721.1	3,621.1	3,758.8	3,454.1	3,757.2	3,579.8	**3,500.8**
1984:	Leaded	2,503.4	2,631.3	2,630.8	2,741.1	2,722.4	2,663.7	2,557.2	2,507.8	2,521.7	2,410.7	2,578.6	2,395.9	**2,572.0**
	Unleaded	3,532.1	3,686.0	3,727.4	3,783.3	3,927.4	3,954.8	3,892.9	3,897.4	3,993.9	3,977.3	4,130.0	4,081.7	**3,882.0**
1985:	Leaded	2,142.3	2,131.5	2,196.6	2,281.0	2,425.3	2,647.6	2,240.9	2,405.8	2,116.2	2,149.5	2,300.9	2,326.5	**2,280.3**
	Unleaded	3,783.7	3,782.7	3,875.1	4,063.2	4,139.1	4,132.1	4,546.6	4,408.3	4,182.3	4,206.6	4,179.3	4,324.6	**4,135.3**
1986:	Leaded	2,022.7	1,981.1	1,985.7	2,091.9	2,402.5	2,328.6	2,182.5	2,168.1	2,043.2	1,969.9	2,011.5	1,956.7	**2,095.4**
	Unleaded	4,499.3	4,320.4	4,074.7	4,405.8	4,691.8	4,771.8	4,773.1	4,923.2	4,846.9	4,646.0	4,883.3	5,012.5	**4,654.1**

Motor Gasoline Production
By Type, At Refineries, Total U.S.
Thousands of barrels

		January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1981:	Leaded	106,480	90,685	99,725	90,077	92,797	92,509	99,050	100,257	96,553	100,937	98,970	101,351	**1,169,391**
	Unleaded	101,605	85,875	92,822	93,260	96,901	94,017	99,410	104,586	100,306	98,207	97,859	102,694	**1,167,542**
1982:	Leaded	91,469	77,079	89,242	87,433	95,501	95,940	99,141	90,023	90,449	92,245	90,867	93,737	**1,093,126**
	Unleaded	99,591	87,960	96,462	95,320	100,291	106,583	110,559	108,863	105,271	101,804	97,249	108,946	**1,218,899**
1983:	Leaded	84,389	73,609	83,583	84,437	91,133	94,128	92,498	90,343	85,507	84,717	86,249	84,537	**1,035,130**
	Unleaded	103,559	90,061	99,390	101,498	107,124	105,455	115,353	112,254	112,763	107,078	112,715	110,974	**1,278,224**
1984:	Leaded	77,605	76,308	81,554	82,234	84,393	79,912	79,273	77,741	75,651	74,733	77,357	74,272	**941,033**
	Unleaded	109,496	106,893	115,550	113,498	121,749	118,644	120,679	120,819	119,817	123,297	123,901	126,533	**1,420,876**
1985:	Leaded	66,410	59,682	68,096	68,429	75,185	79,429	69,468	74,579	63,485	66,634	69,028	72,120	**832,545**
	Unleaded	117,296	105,916	120,129	121,897	128,312	123,964	140,946	136,657	125,470	130,406	125,379	134,064	**1,510,436**
1986:	Leaded	62,704	55,470	61,557	62,756	74,476	69,857	67,658	67,210	61,297	61,067	60,344	60,658	**765,054**
	Unleaded	139,478	120,970	126,315	132,173	145,446	143,153	147,967	152,618	145,408	144,025	146,500	155,389	**1,699,442**

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration

Total Jet Naphtha Production
At Refineries, Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	218.9	231.1	228.6	236.7	231.6	235.5	222.0	213.8	251.8	238.4	254.8	243.3	**233.9**
1972	183.7	227.4	223.3	234.0	221.7	227.5	207.0	219.1	194.4	196.0	191.4	186.2	**209.3**
1973	170.4	163.9	195.4	198.5	193.7	178.1	155.9	173.3	185.9	170.3	163.5	219.4	**180.7**
1974	175.9	173.5	214.9	204.3	221.0	214.2	167.2	166.5	216.1	197.4	216.6	172.7	**195.0**
1975	138.5	166.1	198.6	165.6	183.0	163.4	187.7	187.5	191.2	196.2	201.6	176.8	**179.7**
1976	161.4	166.3	171.6	195.5	214.8	170.3	187.1	188.6	217.5	197.2	188.8	185.4	**187.0**
1977	176.6	177.6	196.2	172.7	188.8	199.1	179.2	191.0	174.1	204.1	193.5	177.2	**185.8**
1978	150.2	164.1	185.7	181.8	194.5	174.9	170.4	196.4	179.0	176.2	182.6	188.3	**178.7**
1979	162.4	160.2	166.3	184.1	181.3	186.0	186.6	165.4	171.4	188.9	170.3	192.9	**176.3**
1980	173.7	190.3	188.9	183.1	168.9	184.7	187.3	209.8	193.9	185.8	188.1	200.4	**187.9**
1981	165.0	172.4	189.0	170.4	197.9	205.8	214.2	219.0	201.0	189.1	207.8	182.3	**192.8**
1982	153.3	185.0	221.7	212.9	203.9	214.0	223.5	204.3	196.3	189.8	200.9	200.0	**200.5**
1983	201.1	224.4	227.9	187.9	228.6	215.9	220.7	202.4	199.8	161.1	202.4	194.4	**205.6**
1984	179.3	192.7	211.4	197.2	209.4	209.1	230.6	243.0	228.4	211.8	221.4	215.5	**212.5**
1985	185.2	194.6	189.2	221.7	229.8	210.6	223.6	209.0	205.6	202.8	209.0	188.7	**205.8**
1986	183.4	172.5	172.3	201.4	197.1	209.0	203.4	196.8	197.0	201.8	202.1	203.4	**195.9**

Total Jet Naphtha Production
At Refineries, Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	6,767	6,472	7,087	7,100	7,179	7,064	6,881	6,627	7,583	7,390	7,645	7,541	**85,326**
1972	5,696	6,596	6,921	7,020	6,873	6,825	6,416	6,793	5,833	6,077	5,742	5,773	**76,565**
1973	5,281	4,589	6,057	5,955	6,005	5,344	4,833	5,371	5,578	5,278	4,905	6,801	**65,997**
1974	5,453	4,859	6,661	6,128	6,850	6,427	5,183	5,162	6,482	6,118	6,497	5,355	**71,175**
1975	4,294	4,651	6,157	4,967	5,672	4,901	5,820	5,812	5,735	6,082	6,047	5,482	**65,620**
1976	5,003	4,822	5,319	5,865	6,659	5,109	5,801	5,846	6,524	6,113	5,665	5,746	**68,472**
1977	5,476	4,973	6,083	5,180	5,853	5,973	5,556	5,921	5,223	6,326	5,806	5,492	**67,862**
1978	4,657	4,594	5,758	5,454	6,028	5,248	5,282	6,087	5,371	5,462	5,479	5,837	**65,257**
1979	5,035	4,485	5,154	5,523	5,619	5,580	5,786	5,126	5,143	5,856	5,108	5,979	**64,394**
1980	5,385	5,520	5,857	5,492	5,237	5,541	5,805	6,504	5,817	5,761	5,644	6,212	**68,775**
1981	5,114	4,828	5,860	5,112	6,136	6,173	6,639	6,789	6,029	5,861	6,235	5,652	**70,428**
1982	4,751	5,181	6,874	6,388	6,321	6,421	6,928	6,334	5,889	5,884	6,027	6,201	**73,199**
1983	6,234	6,282	7,064	5,637	7,088	6,478	6,843	6,273	5,995	4,995	6,071	6,026	**74,986**
1984	5,559	5,588	6,554	5,917	6,491	6,272	7,148	7,532	6,852	6,567	6,642	6,681	**77,803**
1985	5,740	5,449	5,866	6,652	7,125	6,319	6,932	6,480	6,169	6,288	6,269	5,850	**75,139**
1986	5,996	4,830	5,342	6,042	6,109	6,769	6,305	6,100	5,911	6,256	6,066	6,306	**71,532**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Total Jet Kerosine Production
At Refineries, Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	616.5	614.6	620.5	600.7	599.4	609.0	564.9	588.6	583.0	609.0	616.3	590.5	**601.1**
1972	600.6	672.3	683.2	642.5	665.7	631.3	666.5	618.1	615.9	626.0	608.2	624.6	**637.9**
1973	693.7	734.5	721.6	688.6	646.2	657.7	669.0	671.0	661.4	704.9	688.9	610.6	**679.0**
1974	623.[illegible]	609.5	616.8	664.0	647.1	595.6	634.8	638.4	651.1	670.4	646.3	688.4	**640.5**
1975	692.7	668.7	697.8	698.0	677.9	675.5	695.5	770.5	716.2	667.4	662.2	671.7	**691.2**
1976	727.9	751.3	755.7	731.2	684.2	708.4	746.2	753.3	772.1	692.5	731.1	714.5	**730.7**
1977	739.1	795.0	756.6	816.6	788.2	795.3	787.5	815.8	827.9	768.3	754.8	798.6	**787.0**
1978	770.5	824.9	781.1	797.7	816.9	787.9	752.9	770.0	810.0	755.6	828.0	800.6	**791.3**
1979	787.6	837.8	932.0	858.6	798.4	772.4	778.0	874.3	786.5	856.9	858.2	879.0	**835.0**
1980	830.1	835.5	842.5	839.8	833.5	819.2	786.5	749.2	846.9	790.2	800.2	761.8	**811.3**
1981	791.5	776.0	805.7	789.2	807.7	786.4	823.3	756.7	731.6	713.1	751.8	762.9	**774.7**
1982	744.2	817.1	901.5	797.3	699.0	715.6	743.5	780.8	780.9	790.5	814.6	749.1	**777.9**
1983	807.6	785.9	814.2	793.3	778.1	832.4	816.2	811.6	890.3	846.7	876.3	751.5	**817.0**
1984	869.6	938.0	892.7	870.7	890.3	916.0	948.2	972.8	926.3	958.2	919.5	930.9	**919.4**
1985	958.2	981.3	1,002.7	937.4	915.2	914.0	953.7	966.0	989.0	1,036.0	1,089.7	1,051.4	**982.9**
1986	1,143.2	1,174.7	1,119.4	963.3	1,004.2	1,066.2	1,084.4	1,072.2	1,092.7	1,112.2	1,125.2	1,210.4	**1,097.3**

Total Jet Kerosine Production
At Refineries, Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	19,111	17,209	19,236	18,021	18,581	18,269	17,512	18,246	17,490	18,878	18,490	18,305	**219,348**
1972	18,618	19,498	21,178	19,275	20,638	18,940	20,660	19,162	18,478	19,407	18,247	19,363	**233,464**
1973	21,506	20,567	22,369	20,658	20,031	19,731	20,739	20,802	19,841	21,851	20,668	18,929	**247,6[illegible]2**
1974	19,341	17,066	19,122	19,919	20,059	17,869	19,678	19,790	19,533	20,783	19,388	21,341	**233,889**
1975	21,475	18,723	21,633	20,939	21,016	20,264	21,561	23,884	21,487	20,689	19,866	20,824	**252,361**
1976	22,565	21,789	23,426	21,936	21,209	21,251	23,131	23,353	23,164	21,467	21,933	22,150	**267,374**
1977	22,913	22,261	23,454	24,499	24,435	23,860	24,412	25,289	24,838	23,818	22,645	24,758	**287,182**
1978	23,886	23,097	24,213	23,932	25,325	23,638	23,339	23,869	24,301	23,425	24,839	24,818	**288,682**
1979	24,417	23,458	28,892	25,757	24,751	23,172	24,117	27,102	23,596	26,565	25,747	27,250	**304,824**
1980	25,733	24,229	26,119	25,193	25,839	24,577	24,380	23,224	25,406	24,497	24,007	23,617	**296,821**
1981	24,536	21,728	24,976	23,676	25,039	23,591	25,523	23,458	21,949	22,107	22,554	23,650	**282,787**
1982	23,069	22,880	27,947	23,919	21,670	21,468	23,050	24,206	23,428	24,506	24,437	23,221	**283,801**
1983	25,036	22,004	25,239	23,798	24,122	24,973	25,302	25,160	26,708	26,247	26,290	23,296	**298,175**
1984	25,958	27,201	27,675	26,122	27,600	27,480	29,395	30,156	27,788	29,703	27,586	28,857	**336,521**
1985	29,703	27,475	31,083	28,121	28,370	27,419	29,566	29,945	29,669	32,116	32,692	32,594	**358,753**
1986	35,438	32,891	34,700	28,899	31,129	31,987	33,615	33,237	32,782	34,478	33,756	37,521	**400,433**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Total Kerosine Production At Refineries, Total U.S.

Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	305.2	301.1	269.2	222.4	192.0	218.0	232.0	197.3	186.8	232.3	236.2	287.1	240.0
1972	281.5	232.8	227.8	198.0	167.9	166.5	183.2	188.8	224.0	205.3	261.4	288.8	218.8
1973	306.9	334.4	258.4	219.3	166.6	151.1	158.8	175.6	196.7	226.3	220.0	228.5	220.2
1974	191.7	200.9	151.0	120.6	126.5	135.0	119.6	132.3	137.0	187.2	178.5	192.8	156.1
1975	197.3	204.5	158.0	149.4	136.5	93.5	119.7	140.5	145.2	143.2	157.7	187.6	152.8
1976	179.8	187.0	162.1	130.8	113.7	117.3	107.9	138.6	148.9	154.5	164.1	223.5	152.4
1977	256.9	254.0	179.6	128.0	121.2	141.1	172.6	124.2	142.4	166.3	190.1	187.6	172.0
1978	180.8	191.8	193.7	137.8	135.7	132.7	125.2	132.1	128.7	152.6	157.3	184.9	154.4
1979	223.0	260.8	169.3	181.2	171.2	157.0	162.3	156.1	171.7	181.3	172.4	195.4	183.5
1980	166.0	182.7	151.3	142.9	115.6	117.1	121.3	106.1	118.5	124.9	130.7	166.0	136.9
1981	183.1	160.3	124.2	120.5	113.0	103.9	87.0	99.0	89.2	86.9	123.1	145.3	119.6
1982	141.7	153.6	105.4	120.5	77.2	88.6	85.7	83.7	112.3	129.4	143.6	142.3	115.3
1983	133.5	134.0	125.3	89.3	86.1	70.8	77.3	82.3	118.1	137.2	128.9	132.9	109.6
1984	181.2	151.5	78.9	73.3	81.9	95.4	84.8	87.5	123.7	133.7	128.5	151.6	114.3
1985	100.2	135.0	97.4	68.7	43.3	59.3	77.1	91.1	101.5	116.5	115.4	130.8	94.7
1986	135.4	119.9	96.2	76.1	47.3	44.7	62.1	72.8	91.0	91.5	106.5	131.5	89.6

Total Kerosine Production At Refineries, Total U.S.

Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	9,462	8,432	8,344	6,671	5,952	6,539	7,193	6,117	5,603	7,200	7,085	8,901	87,499
1972	8,725	6,751	7,062	5,939	5,204	4,994	5,680	5,854	6,721	6,365	7,842	8,953	80,090
1973	9,515	9,362	8,009	6,578	5,164	4,533	4,923	5,443	5,900	7,014	6,601	7,084	80,126
1974	5,942	5,624	4,681	3,618	3,923	4,050	3,707	4,100	4,111	5,803	5,356	5,976	56,891
1975	6,117	5,725	4,897	4,481	4,233	2,806	3,711	4,356	4,357	4,439	4,731	5,817	55,670
1976	5,575	5,423	5,025	3,924	3,526	3,519	3,344	4,296	4,468	4,788	4,924	6,928	55,740
1977	7,963	7,113	5,569	3,839	3,757	4,232	5,352	3,850	4,273	5,156	5,702	5,816	62,622
1978	5,606	5,371	6,006	4,135	4,206	3,981	3,882	4,094	3,862	4,731	4,719	5,732	56,325
1979	6,913	7,302	5,248	5,437	5,312	4,710	5,032	4,838	5,151	5,620	5,171	6,057	66,791
1980	5,145	5,299	4,691	4,288	3,585	3,512	3,760	3,288	3,554	3,871	3,920	5,145	50,058
1981	5,677	4,487	3,850	3,614	3,504	3,117	2,696	3,068	2,676	2,694	3,692	4,505	43,580
1982	4,392	4,302	3,267	3,615	2,394	2,658	2,657	2,594	3,369	4,011	4,309	4,410	41,978
1983	4,139	3,753	3,883	2,679	2,668	2,125	2,395	2,551	3,542	4,253	3,868	4,121	39,977
1984	5,616	4,393	2,446	2,198	2,540	2,863	2,629	2,713	3,710	4,145	3,856	4,699	41,808
1985	3,106	3,779	3,020	2,061	1,342	1,779	2,389	2,825	3,045	3,613	3,461	4,055	34,475
1986	4,196	3,357	2,983	2,283	1,466	1,342	1,925	2,257	2,731	2,836	3,195	4,076	32,647

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines; Energy Information Administration

Total Distillate Fuel Oil Production
At Refineries, Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	2,610.6	2,581.9	2,517.0	2,555.9	2,421.4	2,560.1	2,509.1	2,514.0	2,376.6	2,411.5	2,406.0	2,527.5	**2,499.3**
1972	2,541.4	2,656.1	2,567.3	2,479.9	2,588.8	2,626.8	2,532.1	2,585.6	2,627.0	2,724.6	2,722.3	2,941.3	**2,632.8**
1973	3,030.9	2,939.8	2,669.8	2,512.7	2,546.6	2,827.4	2,753.6	2,803.1	2,814.6	2,912.6	2,924.3	3,137.8	**2,822.8**
1974	2,882.0	2,399.5	2,227.0	2,522.5	2,705.0	2,783.5	2,792.4	2,705.4	2,552.2	2,700.4	2,801.3	2,925.1	**2,666.4**
1975	2,852.8	2,679.3	2,532.2	2,487.2	2,431.8	2,574.5	2,590.4	2,592.4	2,812.5	2,745.2	2,767.3	2,783.9	**2,654.1**
1976	2,734.4	2,961.5	2,794.0	2,655.5	2,738.5	2,885.6	2,959.7	2,982.0	2,947.2	2,995.8	3,180.8	3,255.4	**2,924.2**
1977	3,369.4	3,695.5	3,173.3	2,994.9	3,130.7	3,191.3	3,198.2	3,272.5	3,311.6	3,362.0	3,339.6	3,323.1	**3,280.2**
1978	3,067.5	2,952.3	3,014.9	2,959.5	3,250.4	3,109.7	3,123.5	3,296.6	3,185.2	3,299.3	3,366.6	3,360.9	**3,165.5**
1979	3,043.3	2,888.3	3,019.6	2,945.9	3,066.1	3,153.2	3,306.1	3,321.1	3,354.7	3,251.4	3,239.5	3,221.4	**3,150.9**
1980	3,013.8	2,766.2	2,557.7	2,460.7	2,474.4	2,646.6	2,589.8	2,461.7	2,686.3	2,589.6	2,703.1	2,891.3	**2,661.8**
1981	2,988.6	2,808.9	2,483.6	2,418.2	2,453.6	2,500.7	2,394.7	2,655.5	2,610.5	2,484.7	2,715.5	2,856.5	**2,614.3**
1982	2,591.1	2,426.7	2,288.5	2,358.1	2,618.4	2,729.5	2,734.2	2,507.5	2,656.5	2,837.6	2,860.2	2,654.7	**2,605.2**
1983	2,321.4	2,135.1	1,993.1	2,171.4	2,443.9	2,545.9	2,604.0	2,615.4	2,739.4	2,681.4	2,679.8	2,522.4	**2,454.4**
1984	2,589.7	2,865.7	2,477.4	2,340.6	2,622.5	2,878.9	2,717.6	2,659.6	2,704.9	2,689.9	2,824.8	2,796.4	**2,680.7**
1985	2,630.0	2,502.1	2,265.0	2,488.2	2,683.8	2,645.0	2,644.3	2,590.5	2,592.0	2,900.1	3,100.5	3,174.1	**2,684.6**
1986	2,897.2	2,561.3	2,641.8	2,786.3	2,856.9	2,728.0	2,709.0	2,921.2	2,864.1	2,716.1	2,915.2	2,941.4	**2,794.9**

Total Distillate Fuel Oil Production
At Refineries, Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	80,930	72,292	78,027	76,678	75,064	76,803	77,782	77,934	71,299	74,757	72,179	78,352	**912,097**
1972	78,782	77,026	79,587	74,398	80,252	78,804	78,495	80,155	78,811	84,464	81,670	91,181	**963,625**
1973	93,959	82,315	82,764	75,382	78,945	84,823	85,361	86,896	84,439	90,292	87,730	97,272	**1,030,178**
1974	89,341	67,185	69,037	75,675	83,855	83,504	86,565	83,868	76,566	83,713	84,038	90,678	**974,025**
1975	88,438	75,021	78,499	74,615	75,386	77,234	80,301	80,363	84,374	85,100	83,019	86,300	**968,650**
1976	84,766	85,884	86,614	79,666	84,893	86,567	91,750	92,443	88,417	92,869	95,423	100,917	**1,070,209**
1977	104,452	103,475	98,371	89,846	97,051	95,739	99,143	101,448	99,348	104,221	100,189	103,015	**1,196,298**
1978	95,092	82,663	93,462	88,786	100,762	93,290	96,830	102,194	95,556	102,277	100,998	104,187	**1,156,097**
1979	94,343	80,872	93,608	88,376	95,050	94,597	102,488	102,955	100,642	100,792	97,186	99,862	**1,150,771**
1980	93,428	80,220	79,290	73,820	76,705	79,399	83,383	76,313	80,588	80,277	81,094	89,631	**974,148**
1981	92,646	78,649	76,991	72,545	76,061	75,022	74,235	82,322	78,315	77,027	81,466	88,551	**953,830**
1982	80,324	67,947	70,943	70,744	81,171	81,884	84,759	77,731	79,696	87,965	85,806	82,297	**951,267**
1983	71,963	59,782	61,787	65,141	75,762	76,376	80,723	81,077	82,183	83,122	80,393	78,195	**896,504**
1984	80,281	83,106	76,800	70,218	81,298	86,366	84,245	82,447	81,148	83,388	84,743	86,687	**980,727**
1985	81,531	70,058	70,214	74,645	83,198	79,354	81,973	80,306	77,759	89,904	93,015	98,397	**980,351**
1986	89,812	71,716	81,897	83,590	88,565	81,841	83,978	90,557	85,922	84,199	87,456	91,183	**1,020,716**

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Total Residual Fuel Oil Production
At Refineries, Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	1,010.4	967.8	855.9	741.3	612.2	668.1	644.0	618.6	658.1	636.1	743.2	889.6	**753.8**
1972	924.1	963.1	827.8	739.0	664.2	660.7	673.0	673.6	709.8	744.9	890.4	1,124.5	**799.6**
1973	1,112.0	1,037.6	954.6	877.2	948.1	914.9	882.3	850.6	877.9	984.4	1,061.3	1,158.4	**971.6**
1974	1,071.7	1,028.9	911.6	984.6	994.7	1,025.8	1,055.7	1,066.8	1,032.1	1,098.7	1,228.7	1,334.6	**1,069.5**
1975	1,414.7	1,354.0	1,298.7	1,244.5	1,150.9	1,152.3	1,154.8	1,145.9	1,183.3	1,165.5	1,214.2	1,353.9	**1,236.1**
1976	1,415.4	1,393.6	1,310.6	1,282.9	1,256.7	1,240.9	1,266.2	1,320.7	1,330.4	1,351.1	1,581.0	1,772.4	**1,376.8**
1977	1,891.5	1,955.0	1,719.8	1,690.6	1,681.5	1,719.7	1,734.6	1,635.3	1,749.6	1,748.7	1,694.7	1,839.0	**1,755.0**
1978	1,868.3	1,795.4	1,750.9	1,548.1	1,652.6	1,571.5	1,585.9	1,629.7	1,635.6	1,563.5	1,662.0	1,750.5	**1,667.8**
1979	1,912.2	1,792.1	1,719.3	1,639.4	1,586.3	1,548.1	1,574.5	1,583.5	1,627.3	1,629.4	1,736.3	1,893.8	**1,686.8**
1980	1,770.8	1,772.7	1,583.6	1,594.7	1,508.5	1,574.7	1,479.6	1,443.6	1,494.8	1,512.2	1,579.1	1,660.3	**1,581.2**
1981	1,612.2	1,564.8	1,423.7	1,320.0	1,222.8	1,232.1	1,173.5	1,231.2	1,292.1	1,238.1	1,226.7	1,329.0	**1,322.2**
1982	1,234.8	1,185.5	1,123.3	1,166.0	1,128.4	1,073.7	1,027.9	964.5	1,008.4	954.5	988.6	988.5	**1,070.4**
1983	972.0	856.9	834.5	940.5	935.5	828.0	769.3	709.6	825.7	807.1	845.3	897.3	**851.8**
1984	961.2	1,002.8	889.0	847.5	840.5	849.4	769.9	800.2	850.4	907.1	928.1	1,053.2	**891.6**
1985	1,004.4	1,040.0	962.8	912.0	793.2	701.6	732.2	742.3	807.8	912.0	932.2	1,055.3	**883.0**
1986	940.2	856.2	813.3	932.6	912.7	818.4	849.9	895.7	853.7	827.2	974.7	986.8	**888.4**

Total Residual Fuel Oil Production
At Refineries, Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	31,321	27,099	26,533	22,238	18,978	20,042	19,964	19,176	19,742	19,719	22,295	27,577	**274,684**
1972	28,646	27,929	25,662	22,169	20,591	19,820	20,863	20,882	21,295	23,092	26,711	34,859	**292,519**
1973	34,472	29,053	29,592	26,315	29,392	27,448	27,352	26,368	26,338	30,517	31,840	35,910	**354,597**
1974	33,222	28,808	28,259	29,539	30,835	30,773	32,727	33,072	30,963	34,060	36,861	41,372	**390,491**
1975	43,857	37,912	40,260	37,335	35,678	34,569	35,798	35,522	35,500	36,130	36,426	41,970	**450,957**
1976	43,876	40,414	40,628	38,486	38,958	37,226	39,251	40,941	39,912	41,885	47,431	54,945	**503,953**
1977	58,637	54,739	53,315	50,719	52,128	51,590	53,773	50,693	52,488	54,209	50,840	57,009	**640,140**
1978	57,918	50,270	54,278	46,444	51,232	47,146	49,164	50,520	49,067	48,470	49,861	54,264	**608,634**
1979	59,277	50,178	53,297	49,182	49,174	46,444	48,810	49,089	48,819	50,510	52,090	58,709	**615,579**
1980	54,894	51,408	49,093	47,842	46,764	47,242	45,868	44,751	44,844	46,878	47,373	51,469	**578,426**
1981	49,977	43,815	44,136	39,600	37,907	36,963	36,380	38,168	38,764	38,380	36,800	41,198	**482,088**
1982	38,280	33,195	34,821	34,979	34,979	32,212	31,865	29,901	30,252	29,591	29,657	30,645	**390,377**
1983	30,131	23,992	25,870	28,216	29,002	24,840	23,847	21,998	24,772	25,020	25,358	27,817	**310,863**
1984	29,796	29,080	27,559	25,424	26,055	25,482	23,866	24,805	25,512	28,120	27,842	32,648	**326,189**
1985	31,137	29,121	29,847	27,361	24,589	21,047	22,698	23,011	24,235	28,271	27,966	32,714	**321,[illegible]**
1986	29,145	23,973	25,211	27,977	28,295	24,551	26,347	27,766	25,610	25,643	29,240	30,591	**324,349**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Total Liquified Petroleum Gases Production
At Refineries*, Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	334.0	360.0	369.0	366.4	356.0	380.6	369.7	381.1	336.0	336.8	332.2	359.2	**356.8**
1972	339.0	358.6	359.7	361.1	364.3	361.2	372.4	368.6	358.9	345.0	335.9	349.8	**356.2**
1973	360.9	359.3	378.2	373.0	420.6	388.1	410.0	390.0	369.7	376.8	331.2	337.9	**374.6**
1974	326.6	337.0	340.5	353.0	339.7	368.3	364.3	361.1	348.1	329.5	300.6	286.2	**337.9**
1975	307.4	295.6	279.8	272.8	298.9	323.4	336.3	357.0	325.8	310.1	308.8	310.2	**310.5**
1976	305.0	316.4	332.9	349.2	376.0	355.9	353.8	361.6	351.6	309.0	331.4	340.6	**340.3**
1977	322.7	336.3	330.6	336.3	397.5	363.7	381.0	360.2	352.4	353.2	348.9	344.6	**352.3**
1978	325.9	338.4	361.0	351.6	362.7	367.5	347.6	351.2	379.3	352.2	357.2	363.4	**354.8**
1979	335.2	315.8	321.8	340.8	373.0	355.8	361.8	364.4	323.2	320.7	322.1	342.9	**339.8**
1980	338.5	352.9	342.3	334.6	324.5	334.6	328.6	323.3	314.4	299.4	323.9	346.2	**330.3**
1981	323.9	332.4	312.8	321.7	324.9	325.9	306.6	341.4	326.3	299.0	297.8	263.4	**314.7**
1982	235.6	229.9	254.6	262.9	280.7	293.5	300.8	280.9	308.9	257.8	259.0	272.3	**269.7**
1983	272.7	279.4	304.3	331.4	327.8	363.5	361.0	342.4	363.2	344.0	345.4	295.7	**327.6**
1984	319.4	349.4	378.2	384.4	393.0	402.6	399.4	387.3	345.4	335.0	337.7	318.8	**362.6**
1985	333.3	356.1	368.6	409.1	416.1	431.6	449.2	421.8	394.4	355.1	355.6	396.3	**390.6**
1986	422.1	402.4	365.3	386.5	424.5	419.1	457.6	448.2	437.4	414.9	418.5	409.5	**417.2**

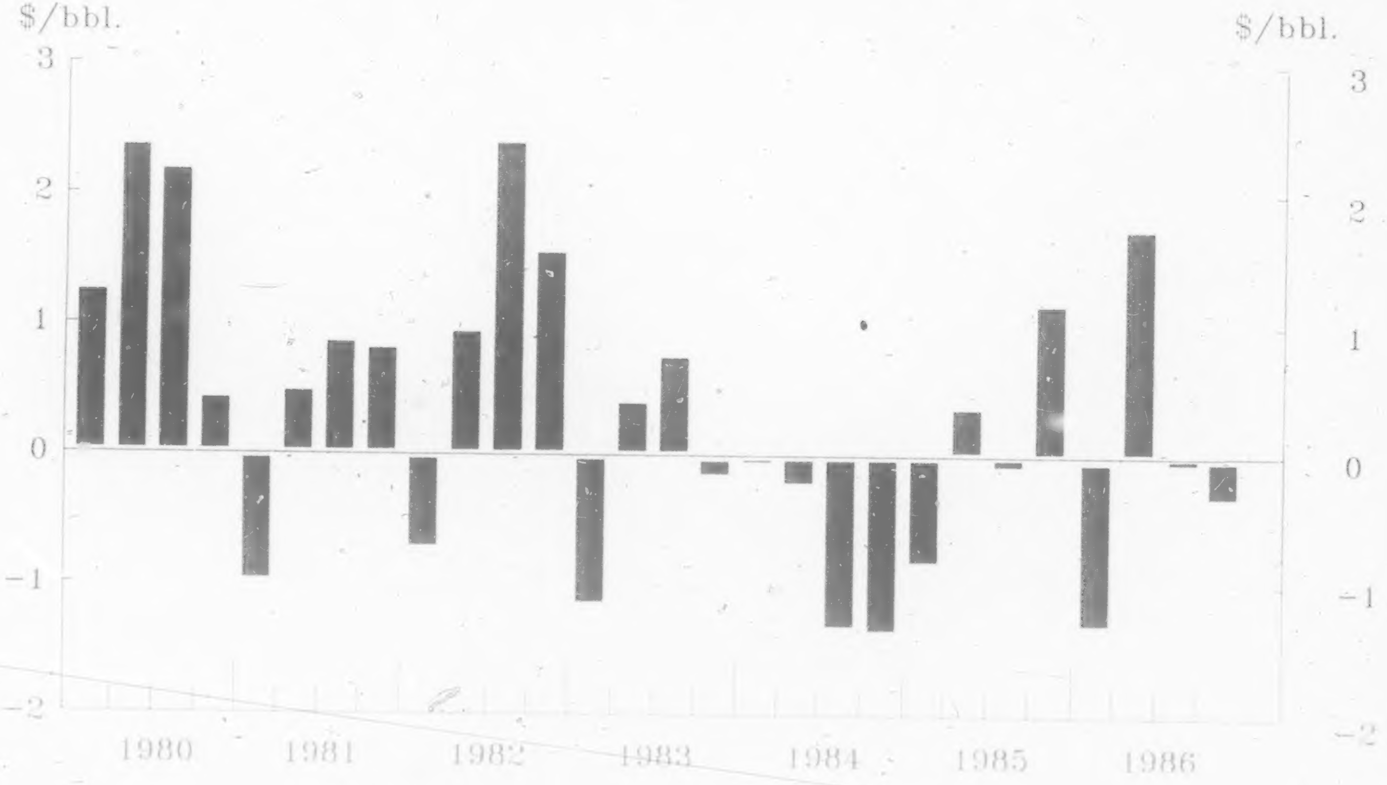
Total Liquified Petroleum Gases Production
At Refineries*, Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	10,355	10,080	11,440	10,992	11,035	11,418	11,460	11,815	10,079	10,442	9,967	11,135	**130,218**
1972	10,510	10,400	11,150	10,834	11,292	10,836	11,544	11,428	10,768	10,696	10,077	10,844	**130,379**
1973	11,188	10,059	11,724	11,190	13,039	11,644	12,711	12,091	11,090	11,681	9,935	10,474	**136,826**
1974	10,126	9,437	10,556	10,590	10,530	11,049	11,294	11,193	10,442	10,216	9,019	8,872	**123,324**
1975	9,528	8,276	8,673	8,184	9,266	9,701	10,425	11,067	9,775	9,613	9,265	9,615	**113,388**
1976	9,455	9,177	10,320	10,476	11,655	10,678	10,967	11,211	10,548	9,579	9,942	10,560	**124,568**
1977	10,004	9,416	10,248	10,089	12,322	10,910	11,810	11,166	10,572	10,948	10,467	10,684	**128,636**
1978	10,102	9,476	11,192	10,549	11,243	11,024	10,775	10,886	11,379	10,918	10,716	11,266	**129,526**
1979	10,391	8,843	9,977	10,225	11,562	10,673	11,215	11,295	9,695	9,943	9,663	10,630	**124,112**
1980	10,493	10,233	10,612	10,038	10,061	10,037	10,186	10,022	9,432	9,282	9,717	10,732	**120,845**
1981	10,040	9,308	9,697	9,652	10,073	9,776	9,505	10,582	9,790	9,270	8,934	8,165	**114,792**
1982	7,305	6,436	7,894	7,887	8,701	8,804	9,324	8,707	9,266	7,993	7,769	8,442	**98,528**
1983	8,453	7,823	9,432	9,942	10,163	10,905	11,191	10,613	10 897	10,665	10,361	9,168	**119,613**
1984	9,902	10,133	11,723	11,532	12,183	12,077	12,381	12,007	10,362	10,385	10,132	9,883	**132,700**
1985	10,331	9,971	11,426	12,274	12,899	12,948	13,925	13,076	11,831	11,009	10,668	12,284	**142,642**
1986	13,086	11,266	11,323	11,594	13 159	12,572	14,186	13,894	13,121	12,861	12,555	12,695	**152,312**

* Much LPG is produced at gas processing plants. These figures represent refinery production only.

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Gulf Coast Refinery Margins



Source: Wright Killen & Co.

Gulf Coast Refinery Margins
Regional Average Cash Operating Margin
Dollars per barrel

1975	1976	1977	1978	1979	1980
-0.47	0.26	0.60	0.43	1.47	1.55

1981	1982	1983	1984	1985	1986
0.30	1.05	-0.03	-0.72	0.16	0.03

	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
1980	1.24	2.36	2.18	0.42
1981	-0.96	0.48	0.85	0.81
1982	-0.70	0.94	2.39	1.55
1983	-1.13	0.40	0.75	-0.14
1984	-0.04	-0.20	-1.31	-1.34
1985	-0.81	0.36	-0.07	1.16
1986	-1.29	1.74	-0.03	-0.30

	1984	1985	1986
January	NA	-1.81	-1.74
February	NA	-0.23	-1.66
March	NA	-0.40	-0.46
April	-0.14	0.62	1.20
May	-0.09	0.22	3.05
June	-0.37	0.23	0.76
July	-1.45	-0.11	-0.81
August	-1.76	-0.37	0.80
September	-0.73	0.27	0.03
October	-0.94	1.02	-0.43
November	-1.29	1.72	-0.15
December	-1.78	0.74	-0.33

Data from Oil & Gas Journal Energy Database.
Source: Wright Killen & Co

Nelson Refinery Operating Index
(1956=100)

	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965
Process Units Operating Index	100.0	107.7	105.8	106.0	107.2	106.4	102.5	100.6	100.5	105.2
Fuel Cost	100.0	115.1	102.1	103.5	109.9	106.7	100.9	104.4	102.8	106.1
Labor Cost	100.0	106.1	105.0	102.3	100.3	97.5	91.8	90.5	89.1	88.3
Wages & Benefits	100.0	104.1	105.4	111.5	113.0	119.2	121.1	129.1	132.8	138.8
Productivity	100.0	98.1	100.3	109.0	112.9	122.3	131.8	142.7	149.1	157.2
Investment, Maintenance, Etc.	100.0	105.4	109.5	113.7	116.9	119.2	121.7	115.2	114.5	116.0
Chemical Costs	100.0	102.2	104.4	107.8	114.3	103.2	96.7	95.6	99.0	119.3
Composite Operating Index	**100.0**	**106.7**	**105.8**	**106.8**	**108.8**	**106.7**	**102.9**	**100.8**	**100.2**	**104.6**

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Process Units Operating Index	100.3	101.2	101.3	102.5	117.6	133.3	147.0	168.0	222.5	258.5
Fuel Cost	105.6	104.7	103.8	107.1	129.2	166.4	166.8	186.8	310.5	376.3
Labor Cost	87.7	92.3	91.8	91.3	101.8	105.0	107.1	102.9	121.1	133.0
Wages & Benefits	145.4	152.4	158.0	171.3	183.1	194.9	210.0	221.2	243.9	273.9
Productivity	165.9	165.1	173.1	187.6	179.9	185.6	197.0	214.9	201.5	206.0
Investment, Maintenance, Etc.	103.2	103.6	103.6	104.3	115.7	115.7	162.3	193.0	215.8	246.5
Chemical Costs	130.9	128.6	124.3	125.9	127.4	120.1	112.2	117.3	153.2	186.7
Composite Operating Index	**102.8**	**104.1**	**103.5**	**104.3**	**113.0**	**117.4**	**118.5**	**125.7**	**159.7**	**189.3**

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Process Units Operating Index	267.1	287.8	297.0	374.4	457.5	562.2	557.2	565.5	584.2	551.7
Fuel Cost	384.5	430.5	422.4	605.7	810.5	1,016.0	931.1	913.8	968.3	878.9
Labor Cost	145.5	149.6	169.6	191.1	200.6	271.9	321.8	334.5	308.0	293.4
Wages & Benefits	314.3	346.2	388.6	424.8	439.9	512.8	574.7	621.9	629.9	642.3
Productivity	216.2	231.4	229.4	222.5	226.3	188.8	178.6	186.7	204.5	219.7
Investment, Maintenance, Etc.	256.2	263.6	280.7	300.2	324.8	357.2	385.0	415.3	436.6	445.8
Chemical Costs	195.2	184.4	191.8	216.6	229.2	237.7	234.1	231.3	233.4	222.9
Composite Operating Index	**209.3**	**228.2**	**243.2**	**278.3**	**312.7**	**373.3**	**396.6**	**412.9**	**417.4**	**406.8**

	1986
Process Units Operating Index	430.8
Fuel Cost	548.8
Labor Cost	259.4
Wages & Benefits	651.8
Productivity	253.8
Investment, Maintenance, Etc.	460.0
Chemical Costs	206.7
Composite Operating Index	**369.0**

Data from Oil & Gas Journal Energy Database.
Source: Oil & Gas Journal

Nelson Refinery Operating Index
(1956=100)

	Process Units Operating	Fuel Cost	Labor Cost	Wages & Benefits	Productivity	Investment, Maintenance, Etc.	Chemical Costs	Composite Operating Index
January 1979	305.8	447.1	162.1	388.2	239.5	290.5	196.7	**247.4**
February	315.7	458.7	176.6	401.4	227.3	291.8	204.8	**255.2**
March	329.6	490.0	185.0	412.1	222.7	293.0	201.0	**261.4**
April	348.6	523.4	197.7	439.8	225.1	303.1	205.3	**274.1**
May	359.7	568.6	193.4	427.7	221.1	293.4	209.9	**272.6**
June	367.3	590.6	187.3	417.4	222.9	298.3	212.0	**274.7**
July	378.6	617.0	187.4	427.8	228.3	304.0	217.7	**280.1**
August	397.8	668.7	189.9	418.3	220.4	305.2	224.1	**286.8**
September	408.8	687.0	203.8	440.1	216.0	306.3	226.9	**294.5**
October	413.1	699.8	201.6	434.5	215.5	307.6	229.7	**295.6**
November	431.2	744.9	206.8	443.9	214.6	309.8	234.1	**303.0**
December	437.8	773.0	195.1	430.3	219.4	310.7	236.4	**295.8**
January 1980	431.8	784.0	161.6	346.0	214.1	311.3	243.3	**290.8**
February	436.0	818.3	133.4	405.1	303.6	313.0	245.6	**284.1**
March	439.6	827.4	133.6	415.1	310.7	314.1	248.4	**285.8**
April	432.3	777.3	165.7	436.9	263.6	315.7	251.7	**294.5**
May	433.4	739.3	211.3	446.6	211.4	317.9	217.0	**306.2**
June	438.4	747.8	213.8	455.1	212.9	322.4	219.4	**309.8**
July	445.5	752.2	226.4	458.4	202.5	326.6	218.9	**317.1**
August	463.6	794.8	228.4	439.9	192.6	330.4	220.9	**323.6**
September	464.3	797.2	229.4	463.0	201.8	333.0	216.6	**324.8**
October	470.8	801.7	241.5	473.5	196.1	336.3	222.2	**331.9**
November	488.0	857.3	232.8	476.0	204.5	337.4	223.2	**334.2**
December	546.6	1,025.1	229.7	463.5	201.8	339.6	223.5	**349.1**
January 1981	547.1	1,010.9	246.9	488.2	197.7	340.6	227.1	**355.1**
February	584.6	1,109.7	254.6	508.6	199.8	342.3	232.3	**368.1**
March	594.4	1,127.1	263.4	498.9	189.4	345.3	228.0	**374.0**
April	598.4	1,120.0	282.6	519.4	183.8	347.5	233.3	**382.1**
May	574.8	1,054.8	277.3	516.7	186.3	349.9	238.2	**375.1**
June	534.1	941.5	270.9	511.7	188.9	352.3	239.9	**364.3**
July	536.8	930.1	284.5	526.8	185.2	359.7	240.2	**371.7**
August	540.2	955.1	263.8	505.9	191.8	361.6	241.3	**367.1**
September	553.4	974.9	279.2	529.1	189.5	366.8	244.0	**377.2**
October	589.7	984.9	283.1	515.6	182.1	372.5	243.4	**382.0**
November	563.0	991.6	284.0	519.8	183.0	373.4	239.2	**383.1**
December	559.2	990.1	272.7	512.7	188.0	373.9	240.9	**378.9**
January 1982	565.9	980.2	304.6	548.9	180.2	375.7	240.3	**390.9**
February	563.2	967.7	309.0	540.2	174.8	376.7	240.5	**391.9**
March	558.2	947.6	312.2	547.9	175.5	379.7	239.6	**392.6**
April	557.8	933.4	326.3	564.1	172.9	380.5	237.9	**396.8**
May	566.2	951.2	327.9	579.4	176.7	385.4	237.7	**401.2**
June	545.4	906.5	315.7	590.0	186.9	381.3	234.2	**390.4**
July	540.6	894.1	308.4	578.9	187.7	386.0	232.8	**388.5**
August	539.9	875.7	323.6	581.8	179.8	389.4	232.8	**394.1**
September	548.2	895.3	327.7	594.1	181.3	390.0	232.6	**397.6**
October	561.4	934.6	325.6	576.0	176.9	390.4	230.4	**400.4**
November	580.4	976.5	338.6	600.0	177.2	391.5	226.5	**409.2**
December	559.1	910.9	342.8	595.1	173.6	392.9	223.9	**405.3**

Nelson Refinery Operating Index
(1956=100)

	Process Units Operating	Fuel Cost	Labor Cost	Wages & Benefits	Productivity	Investment, Maintenance, Etc.	Chemical Costs	Composite Operating Index
January 1983	558.0	883.1	357.0	616.8	172.8	405.2	222.0	**413.4**
February	556.8	866.7	368.7	606.2	164.4	408.1	225.8	**418.0**
March	556.9	864.7	371.1	619.3	166.9	408.4	230.2	**419.3**
April	553.6	877.2	345.2	621.7	180.1	408.5	230.2	**410.6**
May	558.1	900.9	332.4	617.9	185.9	408.7	231.5	**408.1**
June	562.4	923.1	[illegible]14.2	610.2	194.2	414.3	231.2	**405.6**
July	563.9	922.3	316.8	618.0	195.1	417.2	232.0	**407.8**
August	568.4	937.9	310.5	609.9	196.4	419.9	234.6	**408.3**
September	574.7	952.3	311.5	635.7	204.1	422.8	232.9	**411.1**
October	576.8	946.7	324.9	629.3	193.7	422.9	235.9	**416.0**
November	576.3	944.1	324.8	639.8	197.0	424.0	235.6	**416.2**
December	580.2	945.5	336.7	637.8	189.4	423.6	233.7	**420.5**
January 1984	593.5	970.3	342.7	643.2	187.7	431.7	240.2	**429.1**
February	592.2	994.8	308.9	626.8	202.9	432.4	233.9	**418.2**
March	585.5	968.7	315.9	631.5	199.9	433.3	238.2	**419.3**
April	587.4	972.5	317.4	639.5	201.5	433.7	237.6	**420.3**
May	582.9	972.4	301.0	622.8	206.9	434.9	236.3	**414.5**
June	584.3	977.6	297.6	620.3	208.4	436.6	237.8	**414.6**
July	585.2	974.0	304.1	619.5	203.7	437.2	235.2	**416.8**
August	575.6	949.9	297.3	622.9	209.5	439.9	230.3	**412.7**
September	579.8	958.5	300.5	637.9	212.3	440.6	228.6	**414.9**
October	582.1	963.5	303.3	632.6	206.8	439.7	227.8	**415.9**
November	581.3	958.0	307.0	639.7	208.1	439.8	227.5	**416.9**
December	580.3	959.4	302.0	622.7	206.2	439.6	227.1	**415.0**
January 1985	586.2	954.2	321.8	641.3	199.3	444.8	231.9	**424.7**
February	589.3	969.8	313.2	634.3	202.5	445.4	233.8	**423.3**
March	583.5	953.8	313.0	632.2	202.0	445.0	230.5	**421.3**
April	575.6	933.2	310.7	658.3	310.7	445.1	231.5	**418.7**
May	548.9	871.1	292.4	621.7	212.6	446.5	225.6	**406.3**
June	535.3	832.2	292.4	638.3	218.3	446.6	227.2	**403.0**
July	534.3	837.8	282.7	631.0	223.2	446.4	215.4	**398.6**
August	533.1	833.8	284.0	627.4	220.9	445.9	217.5	**398.7**
September	553.6	888.3	288.4	660.6	229.1	446.2	216.6	**405.4**
October	525.4	832.3	259.7	615.5	237.0	446.1	216.4	**389.4**
November	524.2	816.9	274.7	651.7	237.0	445.4	214.2	**393.1**
December	526.5	823.6	273.1	662.3	242.5	446.5	214.0	**393.6**
January 1986	518.2	795.5	241.2	652.9	241.2	453.1	214.2	**393.1**
February	515.3	774.4	284.6	641.4	225.4	453.9	214.1	**396.8**
March	477.8	656.1	290.7	665.6	228.9	459.8	213.0	**391.0**
April	439.0	571.1	266.3	655.9	246.3	454.9	207.5	**371.4**
May	424.2	541.3	241.4	634.6	262.9	463.7	206.0	**363.0**
June	414.3	512.6	247.3	655.5	265.1	459.2	203.7	**360.5**
July	396.5	454.2	251.0	647.4	257.9	463.6	204.3	**358.6**
August	389.7	439.7	245.0	649.9	265.3	463.7	202.5	**354.9**
September	401.0	445.2	275.3	652.4	257.6	464.6	203.4	**367.4**
October	398.6	443.0	269.1	703.7	261.0	464.7	205.8	**365.3**
November	398.5	461.4	274.5	659.4	266.4	465.1	202.9	**358.5**
December	403.7	491.2	245.8	658.3	267.8	465.7	203.5	**360.8**

Data from Oil & Gas Journal Energy Database.
Source: Oil & Gas Journal

Nelson Refinery Construction Index
(1946=100)

	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958
Pumps, Compressors, Etc.	127.0	135.9	138.2	155.9	155.6	162.5	166.5	172.2	192.0	206.7	214.7
Electrical Machinery	127.6	130.9	134.9	154.3	152.4	156.4	160.0	162.5	175.0	188.9	192.7
Internal Combustion Engines	116.9	124.8	126.0	146.1	146.5	148.1	150.5	153.2	164.0	173.9	178.3
Instruments	120.0	122.0	127.8	142.3	146.2	151.8	154.6	162.9	182.1	187.4	194.9
Heat Exchangers	130.0	133.0	140.0	152.0	165.8	174.9	171.7	156.8	190.7	203.6	181.2
Miscellaneous Equipment Average	122.1	121.6	126.2	145.1	153.3	158.8	160.7	161.5	180.5	192.1	192.4
Materials Component	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Labor Component	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Composite Inflation Index	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
Pumps, Compressors, Etc.	226.5	228.3	228.8	222.5	224.3	231.5	245.6	260.5	272.2	284.5	300.4
Electrical Machinery	195.8	195.2	192.1	189.5	187.7	186.4	186.2	190.5	196.1	198.2	201.7
Internal Combustion Engines	178.5	180.7	181.1	183.4	181.5	184.9	186.4	188.7	192.0	198.9	205.7
Instruments	201.0	202.5	207.5	214.8	224.5	225.3	221.5	229.7	232.3	239.1	237.6
Heat Exchangers	178.9	194.6	188.1	183.6	189.1	206.1	218.4	235.2	237.9	223.4	237.6
Miscellaneous Equipment Average	196.1	200.0	199.5	198.8	201.4	206.8	211.6	226.1	228.8	228.8	239.3
Materials Component	NA	NA	207.7	205.9	206.3	209.6	212.0	216.3	219.7	224.1	234.9
Labor Component	NA	NA	249.4	258.8	268.4	280.5	294.4	310.9	331.3	357.4	391.8
Composite Inflation Index	**NA**	**NA**	**232.7**	**237.6**	**243.6**	**252.1**	**261.4**	**273.0**	**286.7**	**304.1**	**329.0**

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Pumps, Compressors, Etc.	313.1	330.6	337.5	346.9	416.3	509.8	538.6	575.0	619.5	673.9	777.3
Electrical Machinery	208.6	214.5	216.3	220.2	244.9	275.6	287.0	301.8	323.1	350.0	394.7
Internal Combustion Engines	217.0	226.1	233.3	238.3	270.2	319.8	348.3	376.9	412.7	453.8	512.6
Instruments	278.8	304.2	328.4	338.0	376.5	420.5	466.4	484.1	518.7	541.7	587.3
Heat Exchangers	253.8	268.0	274.3	313.7	501.3	553.9	478.5	454.0	496.0	557.4	618.7
Miscellaneous Equipment Average	254.3	268.7	278.0	291.4	361.8	415.9	423.8	438.3	474.1	515.4	578.1
Materials Component	250.5	265.2	277.8	292.3	371.3	421.0	445.2	471.3	516.7	573.1	629.2
Labor Component	441.1	499.9	545.6	585.2	623.6	678.5	729.4	774.1	824.1	879.0	951.9
Composite Inflation Index	**364.9**	**406.0**	**438.5**	**468.0**	**522.7**	**575.5**	**615.7**	**653.0**	**701.1**	**756.6**	**822.8**

	1981	1982	1983	1984	1985	1986
Pumps, Compressors, Etc.	880.6	944.1	944.5	950.5	969.9	982.6
Electrical Machinery	431.4	453.8	469.0	486.5	497.0	504.6
Internal Combustion Engines	576.9	627.7	653.7	663.1	666.7	676.9
Instruments	623.4	652.5	675.2	696.8	713.7	733.3
Heat Exchangers	727.3	635.9	541.7	530.9	520.0	524.7
Miscellaneous Equipment Average	647.9	662.8	656.8	665.6	673.4	684.4
Materials Component	693.2	707.6	712.4	735.3	739.6	730.0
Labor Component	1,044.2	1,156.5	1,234.8	1,278.1	1,297.6	1,330.0
Composite Inflation Index	**903.8**	**976.9**	**1,025.8**	**1,061.0**	**1,074.4**	**1,089.9**

Data from Oil & Gas Journal Energy Database.
Source: Oil & Gas Journal

Nelson Refinery Construction Index
(1946=100)

	Pumps, Compressors Etc.	Electrical Machinery	Internal Combustion Engines	Instruments	Heat Exchangers	Miscellaneous Equipment Average	Materials Component	Labor Component	Composite Inflation Index
January 1979	646.0	335.3	435.4	538.4	529.8	497.0	550.8	848.2	**729.2**
February	646.3	337.8	437.2	538.4	534.1	498.8	555.3	850.3	**732.3**
March	646.8	340.4	437.5	538.4	550.0	502.5	562.7	850.7	**735.5**
April	662.9	342.1	442.3	538.4	553.2	507.8	565.1	851.1	**736.7**
May	668.6	345.1	446.4	538.4	554.0	510.5	565.7	855.3	**739.5**
June	672.1	346.4	446.8	538.4	552.4	511.2	571.1	872.1	**751.7**
July	675.9	351.3	450.6	538.4	547.1	512.7	576.2	892.6	**766.0**
August	681.9	354.7	457.5	538.4	567.9	520.1	578.2	896.2	**769.0**
September	686.8	358.0	468.1	538.4	570.7	524.4	579.9	900.0	**771.9**
October	695.0	360.8	473.6	538.4	579.3	529.4	586.7	905.8	**778.2**
November	699.6	362.9	475.2	538.4	571.9	529.6	590.3	912.9	**783.9**
December	705.3	365.5	475.2	577.6	578.6	540.4	595.6	912.9	**786.0**
January 1980	717.6	373.3	485.2	577.6	586.3	548.0	606.2	913.9	**790.8**
February	724.1	380.6	487.9	577.6	596.5	553.3	612.8	916.3	**794.9**
March	753.8	383.9	495.2	577.6	605.7	563.2	618.6	917.0	**797.7**
April	766.6	389.4	503.0	577.6	598.9	567.1	628.4	917.0	**801.6**
May	775.0	390.4	505.1	577.6	611.3	571.9	627.2	922.6	**804.4**
June	777.2	394.3	505.1	594.2	611.1	576.4	626.8	941.6	**815.7**
July	783.7	398.8	514.7	594.2	619.7	582.2	625.6	960.2	**826.4**
August	790.0	401.1	517.2	594.2	617.1	583.9	628.6	974.2	**836.0**
September	793.5	403.7	526.8	594.2	620.2	587.7	632.5	982.5	**842.5**
October	806.6	405.6	531.6	594.2	636.9	595.0	642.5	989.6	**850.8**
November	810.1	406.4	539.5	594.2	643.5	589.7	646.3	992.0	**853.7**
December	829.1	409.4	540.1	594.2	676.9	609.0	654.6	995.6	**859.2**
January 1981	837.0	415.2	547.2	594.2	710.1	620.7	667.8	996.4	**865.0**
February	851.5	418.6	548.6	594.2	724.0	627.4	670.5	996.4	**866.0**
March	857.7	423.1	557.4	653.6	737.7	645.9	683.1	1,000.5	**873.6**
April	859.6	426.8	567.2	661.8	745.6	652.2	691.5	1,004.3	**879.2**
May	870.2	427.2	567.2	667.3	733.0	653.0	691.9	1,014.2	**885.3**
June	877.9	429.2	570.1	595.0	718.5	638.1	686.9	1,027.8	**891.4**
July	887.7	433.1	579.7	602.9	722.7	645.2	699.9	1,050.0	**909.9**
August	894.2	436.6	586.2	604.0	723.2	648.8	702.1	1,056.7	**914.9**
September	898.0	439.1	599.1	633.9	740.7	662.2	708.0	1,074.7	**928.0**
October	898.5	440.9	599.3	618.2	742.7	660.0	707.3	1,099.2	**942.4**
November	913.5	442.9	601.2	625.7	713.3	659.3	705.3	1,004.4	**944.8**
December	920.9	444.6	599.3	630.5	716.9	662.4	706.1	1,105.7	**945.9**
January 1982	929.6	447.4	609.1	633.8	716.9	667.4	712.1	1,112.9	**952.6**
February	939.4	449.5	610.6	644.3	716.9	672.1	714.5	1,118.2	**956.7**
March	941.5	451.7	611.7	642.4	675.1	664.5	712.0	1,132.6	**964.4**
April	945.1	453.8	614.6	643.1	663.5	664.0	712.2	1,135.9	**966.4**
May	948.6	454.0	624.0	651.6	648.0	665.2	710.6	1,143.5	**970.3**
June	945.1	454.4	624.8	652.3	622.4	659.8	705.4	1,143.9	**968.5**
July	945.3	454.6	628.0	653.3	603.4	656.2	703.8	1,164.8	**980.4**
August	946.6	454.6	636.7	655.9	600.5	658.9	704.6	1,178.7	**989.1**
September	947.0	455.6	642.3	659.2	593.2	659.5	703.8	1,181.8	**990.6**
October	946.4	456.6	643.1	660.4	593.2	659.9	705.4	1,182.5	**991.7**
November	947.0	456.6	643.4	662.6	599.1	661.7	704.5	1,187.5	**994.3**
December	947.5	457.1	643.6	670.8	599.1	663.6	701.3	1,195.7	**998.0**

Nelson Refinery Construction Index
(1946=100)

	Pumps, Compressors Etc.	Electrical Machinery	Internal Combustion Engines	Instruments	Heat Exchangers	Miscellaneous Equipment Average	Materials Component	Labor Component	Composite Inflation Index
January 1983	951.3	459.1	644.0	664.0	581.5	656.0	699.2	1,201.8	**1,000.8**
February	950.8	462.1	644.4	664.4	562.8	656.9	707.9	1,208.2	**1,008.1**
March	946.4	462.7	650.7	668.5	557.4	657.1	709.8	1,208.2	**1,008.8**
April	946.4	465.0	653.8	666.7	549.0	656.2	710.0	1,208.2	**1,008.9**
May	945.3	465.8	658.2	670.2	543.2	656.5	709.5	1,209.3	**1,009.4**
June	945.3	466.8	657.6	672.5	532.1	654.9	708.4	1,233.2	**1,023.3**
July	946.2	471.9	655.3	678.0	530.7	656.4	710.1	1,244.1	**1,030.6**
August	939.6	472.7	656.1	678.4	529.3	655.2	711.9	1,254.0	**1,037.1**
September	941.0	474.4	653.4	684.2	528.9	656.4	718.2	1,261.8	**1,044.4**
October	939.1	474.5	654.8	681.8	528.6	655.8	718.7	1,261.8	**1,044.6**
November	939.9	475.6	658.0	682.1	528.3	656.8	720.8	1,265.0	**1,047.3**
December	942.4	477.6	658.2	691.1	529.1	695.7	723.4	1,261.5	**1,046.3**
January 1984	941.8	479.3	661.3	691.9	529.6	660.8	727.8	1,263.2	**1,049.0**
February	942.4	481.1	661.3	690.8	529.6	661.0	731.6	1,263.6	**1,050.8**
March	945.6	483.0	658.8	694.8	531.7	662.8	732.3	1,266.4	**1,052.9**
April	940.5	484.6	659.0	697.4	536.0	665.5	734.3	1,267.1	**1,054.0**
May	947.8	485.0	662.1	695.5	533.2	664.7	735.3	1,271.0	**1,056.7**
June	950.8	486.8	661.7	694.0	530.6	664.8	735.4	1,277.9	**1,060.9**
July	952.1	487.0	663.2	692.8	538.5	666.7	736.7	1,279.7	**1,062.5**
August	947.2	487.4	665.3	698.7	536.9	667.1	737.0	1,290.3	**1,069.0**
September	951.3	488.5	668.4	699.9	536.9	669.0	738.3	1,292.1	**1,070.6**
October	953.5	490.7	666.7	700.6	522.1	666.7	738.8	1,288.2	**1,068.4**
November	964.1	492.3	667.8	703.4	522.4	670.0	738.4	1,288.6	**1,068.6**
December	958.4	492.8	662.1	701.5	522.8	667.5	737.4	1,288.6	**1,068.2**
January 1985	961.1	494.2	664.0	704.2	523.6	669.4	738.0	1,294.2	**1,072.0**
February	960.9	495.8	665.7	707.0	523.8	670.6	739.6	1,296.0	**1,073.5**
March	968.2	496.4	665.7	706.7	523.1	672.0	741.0	1,293.5	**1,072.5**
April	967.1	497.5	668.0	708.9	523.3	673.0	741.2	1,293.5	**1,072.6**
May	967.4	497.5	667.8	708.4	525.2	672.7	740.1	1,300.0	**1,076.0**
June	969.0	497.3	667.8	712.3	525.2	674.3	739.4	1,300.8	**1,076.3**
July	969.8	496.4	666.9	714.1	522.6	674.0	738.6	1,300.8	**1,075.9**
August	971.5	496.4	666.9	714.4	522.6	674.4	739.9	1,297.6	**1,074.6**
September	972.6	497.5	669.2	721.7	514.7	675.1	739.9	1,298.8	**1,075.3**
October	975.0	497.5	666.1	719.9	514.7	674.6	739.8	1,298.5	**1,075.0**
November	978.3	498.3	666.1	721.0	510.4	674.8	738.5	1,296.9	**1,073.5**
December	978.3	499.1	666.7	725.2	510.2	675.9	738.7	1,301.0	**1,076.0**
January 1986	972.0	500.1	668.8	720.0	511.2	674.4	730.5	1,302.8	**1,073.9**
February	972.0	501.0	670.1	728.4	512.5	676.8	726.4	1,308.9	**1,075.8**
March	973.9	502.2	671.5	735.5	513.9	679.4	726.6	1,308.9	**1,075.9**
April	982.4	503.0	678.0	729.9	518.3	682.3	727.7	1,311.7	**1,078.1**
May	978.5	503.2	677.0	732.8	518.0	681.9	729.5	1,314.5	**1,080.5**
June	982.6	503.4	678.6	723.9	518.0	683.3	729.5	1,327.5	**1,088.3**
July	984.8	505.8	680.8	732.3	518.0	684.2	729.6	1,344.9	**1,098.8**
August	986.2	506.6	679.9	737.3	528.1	687.6	730.5	1,344.7	**1,099.0**
September	988.6	507.7	679.5	738.5	531.0	689.0	731.3	1,347.5	**1,101.0**
October	988.3	507.3	679.7	736.3	539.5	689.5	731.9	1,347.8	**1,101.4**
November	991.9	507.9	679.5	738.6	541.0	691.8	732.1	1,349.3	**1,102.4**
December	990.2	507.3	679.5	738.7	547.3	692.6	732.3	1,351.3	**1,103.7**

Data from Oil & Gas Journal Energy Database
Source: Oil & Gas Journal

Worldwide Crude Oil Refinery Runs
Thousands of barrels per day

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Africa	465	540	570	520	535	710	740	815	905	930	1,005
Australia & New Zealand	375	415	465	500	510	565	565	575	620	625	635
Canada	975	1,040	1,070	1,135	1,190	1,280	1,395	1,535	1,675	1,765	1,700
Japan	1,370	1,650	2,005	2,540	2,995	3,470	3,855	3,850	4,430	4,300	4,055
Latin America	3,905	4,030	4,170	4,350	4,590	4,905	5,295	5,445	5,970	5,890	5,515
Middle East	1,525	1,580	1,645	1,765	1,875	2,105	2,240	2,165	2,170	2,330	2,075
South Asia	270	300	370	420	505	525	545	540	590	550	485
South East Asia	515	610	635	890	920	1,020	1,265	1,385	1,705	1,560	1,545
United States	9,043	9,444	9,815	10,312	10,629	10,870	11,200	11,696	12,431	12,280	12,475
Western Europe	7,175	8,080	8,830	10,045	11,195	12,730	13,145	13,910	15,065	14,175	12,415
Total Non-Communist	25,618	27,689	29,575	32,477	34,944	38,180	40,245	41,916	45,561	44,405	41,905
Total Communist	4,890	5,270	5,655	6,115	6,705	7,335	7,845	8,555	9,365	10,185	11,025
Total World	30,508	32,959	35,230	38,592	41,649	45,515	48,090	50,471	54,926	54,590	52,930

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Africa	1,055	1,165	1,280	1,355	1,460	1,525	1,735	1,920	1,975	2,015	2,095
Australia & New Zealand	655	680	690	700	640	655	625	605	615	580	570
Canada	1,710	1,805	1,820	1,960	2,085	1,945	1,650	1,545	1,570	1,495	1,475
Japan	4,230	4,285	4,240	4,340	4,015	3,630	3,360	3,255	3,355	3,120	2,990
Latin America	5,670	5,715	5,975	6,220	6,460	6,575	6,080	5,825	5,715	5,285	5,265
Middle East	2,300	2,240	2,535	2,365	2,445	2,205	2,245	2,515	2,665	2,795	2,950
South Asia	550	605	645	675	705	795	840	880	885	1,020	1,110
South East Asia	1,865	2,030	2,330	2,450	2,370	2,480	2,335	2,380	2,455	2,650	2,760
United States	13,435	14,625	14,780	14,465	13,520	12,470	11,775	11,685	12,045	12,005	12,710
Western Europe	13,180	12,775	12,855	13,665	12,330	10,970	10,075	9,710	9,790	9,490	10,095
Total Non-Communist	44,650	45,925	47,150	48,195	46,030	43,250	40,720	40,320	41,070	40,455	41,990
Total Communist	11,575	11,930	12,857	13,230	13,320	13,420	13,575	13,675	13,885	14,165	14,280
Total World	56,225	57,855	60,025	61,425	59,350	56,670	54,295	53,995	54,955	54,620	56,270

Data from Oil & Gas Journal Energy Database
Source: British Petroleum

Worldwide Refinery Utilization Rate
Percent

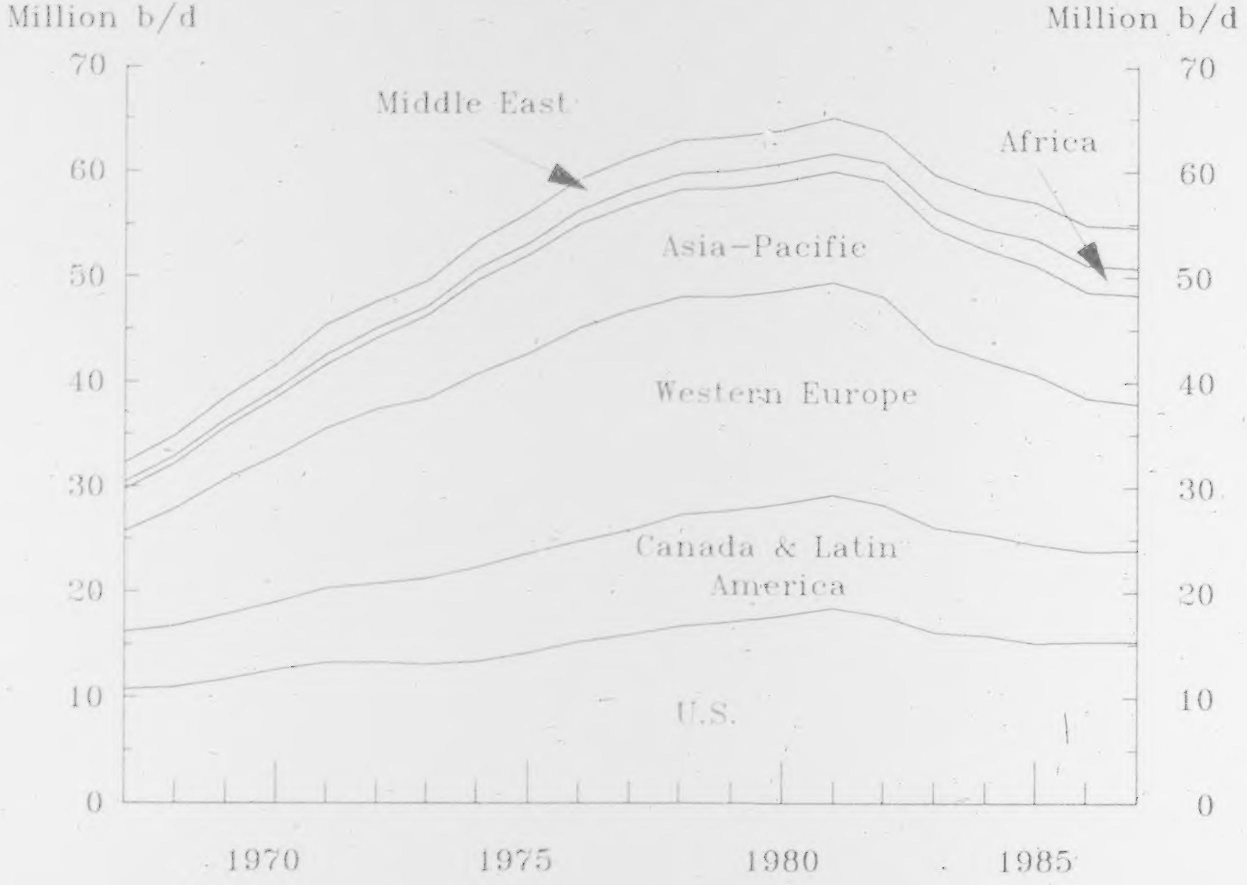
	1973	1974	1975	1976	1977	1978	1979
Africa	84.6	75.0	79.1	76.4	77.4	74.0	67.8
Australia & New Zealand	83.8	83.9	83.6	86.2	89.5	87.9	87.5
Canada	89.3	87.8	81.7	77.9	81.3	77.8	84.7
Japan	92.0	85.3	77.8	80.0	81.1	80.2	82.1
Latin America	87.5	79.8	74.5	73.0	71.1	73.1	72.1
Middle East	85.9	87.4	75.5	78.0	69.0	75.1	66.8
South Asia	90.1	75.9	66.0	74.8	77.1	78.2	81.8
South East Asia	66.1	58.5	56.7	65.8	64.8	72.2	72.4
United States	86.6	82.1	81.9	81.9	86.3	85.1	80.7
Western Europe	81.3	73.6	60.9	63.5	63.3	63.2	68.0
Total Non-Communist	84.4	78.3	71.6	73.1	73.9	74.3	74.4
Total Communist	88.8	88.9	87.2	86.5	86.6	88.2	86.9
Total World	**85.1**	**80.1**	**74.3**	**75.5**	**76.2**	**76.9**	**76.8**

	1980	1981	1982	1983	1984	1985	1986
Africa	70.9	74.9	73.7	82.1	77.8	78.9	82.2
Australia & New Zealand	79.0	80.4	76.7	74.2	78.3	83.0	77.0
Canada	97.0	90.3	73.0	76.3	77.9	72.0	70.9
Japan	70.7	64.0	61.1	65.4	67.4	62.7	60.1
Latin America	73.1	73.8	69.6	70.1	72.1	73.9	72.8
Middle East	68.6	67.8	63.0	70.6	75.8	73.4	76.6
South Asia	81.0	89.8	84.4	86.3	88.9	88.7	96.5
South East Asia	69.2	71.4	67.2	64.0	60.4	67.1	69.6
United States	74.1	68.2	69.8	73.7	76.9	77.7	82.5
Western Europe	61.5	55.8	56.9	58.4	64.0	64.7	70.3
Total Non-Communist	70.1	66.4	65.4	68.0	71.1	71.6	74.6
Total Communist	85.9	81.2	80.2	79.4	80.2	81.8	82.0
Total World	**73.1**	**69.4**	**68.6**	**70.6**	**73.2**	**74.0**	**76.1**

Data from Oil & Gas Journal Energy Database.
Source: British Petroleum

Non-Communist Refining Capacity

At January 1



Source: OGJ

Worldwide Refining Capacity
By Continent
Estimated at January 1
Thousands of barrels per day

	1954	1955	1956	1957	1958	1959	1960
United States	8,090.3	8,437.3	8,643.5	9,391.0	9,570.0	9,955.0	10,250.0
Canada	514.6	587.4	608.7	751.0	795.0	872.0	920.0
Latin America	1,870.6	1,971.4	2,160.4	2,327.7	2,559.4	2,720.1	2,755.4
Western Hemisphere	**10,475.5**	**10,996.1**	**11,412.6**	**12,469.7**	**12,924.4**	**13,547.1**	**13,925.4**
Asia-Pacific	459.8	613.7	731.0	876.0	1,088.5	1,229.6	1,374.6
Western Europe	2,078.9	2,323.6	2,390.6	2,770.1	2,909.8	3,612.6	3,974.3
Middle East	1,159.7	1,184.3	1,279.7	1,242.6	1,260.6	1,432.8	1,434.8
Africa	72.4	68.4	72.4	93.4	98.4	100.1	116.5
Eastern Hemisphere	**3,770.8**	**4,190.0**	**4,473.7**	**4,982.1**	**5,357.3**	**6,375.1**	**6,900.2**
Total Non-Communist	**14,246.3**	**15,186.1**	**15,886.3**	**17,451.8**	**18,281.7**	**19,922.2**	**20,825.6**

	1961	1962	1963	1964	1965	1966
United States	10,400.0	10,573.4	10,491.0	10,620.0	10,750.0	10,800.0
Canada	1,002.3	1,015.7	1,065.7	1,100.5	1,100.0	1,150.0
Latin America	3,098.8	3,340.3	3,534.6	3,641.0	3,834.9	4,107.9
Western Hemisphere	**14,501.1**	**14,929.4**	**15,091.3**	**15,361.5**	**15,684.9**	**16,057.9**
Asia-Pacific	1,431.7	1,913.0	2,129.8	2,537.0	3,176.6	3,516.7
Western Europe	4,457.9	4,900.5	5,221.3	6,330.5	7,577.4	8,603.7
Middle East	1,481.8	1,507.1	1,652.5	1,701.7	1,701.8	1,792.2
Africa	122.5	140.3	196.8	365.2	502.9	613.3
Eastern Hemisphere	**7,493.9**	**8,460.9**	**9,200.4**	**10,934.4**	**12,958.7**	**14,525.9**
Total Non-Communist	**21,995.0**	**23,390.3**	**24,291.7**	**26,295.9**	**28,643.6**	**30,583.8**

Worldwide Refining Capacity
By Country
Estimated at January 1
Thousands of barrels per day

	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
United States	**10,721.6**	**10,952.5**	**11,658.0**	**12,600.0**	**13,293.0**	**13,284.9**	**13,087.0**	**13,383.0**	**14,216.3**	**15,230.0**
Canada	**1,174.3**	**1,206.6**	**1,305.7**	**1,400.0**	**1,450.0**	**1,444.5**	**1,725.0**	**1,788.1**	**1,877.6**	**2,023.6**
Argentina	435.5	434.1	445.8	457.2	456.2	629.6	601.6	623.6	720.7	683.8
Bahamas	NA	NA	NA	NA	250.0	250.0	250.0	500.0	500.0	500.0
Brazil	370.4	379.9	462.4	501.6	504.6	564.0	718.3	791.8	961.8	986.3
Chile	91.0	91.0	90.0	91.0	111.0	136.0	123.5	123.5	123.5	149.2
Colombia	129.3	129.3	138.9	137.4	137.6	173.7	172.1	166.1	172.1	171.5
Ecuador	11.5	20.4	37.0	33.0	35.3	36.3	35.5	35.2	44.4	43.9
Mexico	394.0	517.5	575.5	494.5	574.2	592.0	624.5	625.0	760.0	760.0
Netherlands Antilles	795.0	795.0	795.0	840.0	790.0	838.9	880.0	945.0	900.0	849.0
Panama	55.0	55.0	70.0	78.0	75.0	75.0	75.0	75.0	100.0	100.0
Peru	63.6	90.0	103.6	91.5	91.5	105.6	101.5	106.8	129.6	129.7
Puerto Rico	155.0	155.0	155.0	155.0	140.0	151.0	291.0	307.8	283.8	283.8
Trinidad & Tobago	390.0	407.0	417.0	430.0	438.0	464.2	441.0	461.0	461.0	461.0
Venezuela	1,194.2	1,280.8	1,340.5	1,313.4	1,526.1	1,375.9	1,499.0	1,531.6	1,531.7	1,450.8
Virgin Islands	50.0	70.0	100.0	220.0	250.0	440.0	418.0	590.0	590.0	728.0
Other Latin America	149.1	158.5	160.8	176.9	206.1	214.8	219.8	261.3	258.0	270.5
Latin America	**4,283.6**	**4,583.5**	**4,891.5**	**5,019.5**	**5,585.6**	**6,047.0**	**6,450.8**	**7,143.7**	**7,536.6**	**7,567.5**
Western Hemisphere	**16,179.5**	**16,742.6**	**17,855.2**	**19,019.5**	**20,328.6**	**20,776.4**	**21,262.8**	**22,314.8**	**23,630.4**	**24,821.1**
Australia	508.3	535.0	580.5	594.0	640.0	699.0	632.7	680.9	722.2	707.1
India	346.5	337.2	386.2	446.2	429.3	437.3	489.1	499.1	555.1	564.1
Indonesia	268.2	268.2	268.2	268.2	251.2	420.0	424.0	427.7	427.7	427.7
Japan	2,211.1	2,388.9	2,692.2	3,139.7	3,698.8	3,816.1	4,525.6	5,151.8	5,345.8	5,629.1
Korea, South	50.0	55.0	115.0	180.0	250.0	220.0	430.0	420.0	425.0	435.0
Malaysia	NA	NA	NA	NA	NA	NA	NA	NA	NA	123.0
New Zealand	67.0	63.0	63.0	66.0	66.0	68.0	54.0	54.0	54.0	54.0
Pakistan	76.0	105.0	115.1	106.8	115.1	117.1	80.5	80.5	79.2	74.2
Philippines	121.0	171.0	180.0	182.0	205.0	221.0	276.3	283.8	274.0	247.0
Singapore	NA	NA	NA	NA	NA	299.3	390.2	699.6	845.7	922.7
Sri Lanka	NA	NA	NA	44.0	30.0	43.0	37.4	38.0	34.4	38.0
Taiwan	52.0	63.1	129.1	119.0	118.0	220.0	199.0	210.0	244.1	334.5
Thailand	46.2	46.2	62.2	62.2	96.2	86.2	155.8	166.2	166.2	166.2
Other Asia-Pacific	209.4	291.3	328.3	357.8	166.3	170.7	221.1	221.1	224.0	145.8
Asia-Pacific	**3,955.7**	**4,323.9**	**4,919.8**	**5,565.9**	**6,065.9**	**6,817.7**	**7,915.7**	**8,932.7**	**9,397.4**	**9,868.3**
Algeria	46.0	46.5	46.5	48.3	48.3	48.3	60.7	115.3	115.3	122.4
Egypt	189.0	169.0	175.0	175.0	175.0	210.0	98.5	180.0	18.0	180.0
Ivory Coast	19.0	19.0	19.0	19.0	19.0	22.8	24.4	44.2	42.9	40.0
Kenya	44.0	44.0	44.0	44.0	50.5	51.0	48.0	48.0	48.0	86.0
Libya	11.4	9.0	9.5	9.5	9.5	9.5	17.4	16.4	76.4	76.4
Morocco	34.0	33.5	35.0	35.0	35.0	37.0	58.6	58.5	58.6	67.8
Nigeria	42.0	35.0	40.0	46.0	55.0	55.0	60.0	60.0	60.0	57.0
South Africa	153.2	163.9	165.9	184.4	262.9	251.3	242.6	331.0	397.1	433.8
Other Africa	165.9	200.2	221.2	223.7	269.6	217.5	214.9	252.3	267.0	264.8
Africa	**704.5**	**720.1**	**756.1**	**784.9**	**924.8**	**902.4**	**825.1**	**1,105.7**	**1,083.3**	**1,328.2**

Worldwide Refining Capacity
By Country
Estimated at January 1
Thousands of barrels per day

	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
Austria	97.0	97.1	97.1	94.1	159.5	155.0	220.5	220.0	220.0	280.0
Belgium	346.6	526.6	628.6	668.6	704.0	835.6	831.6	816.7	866.7	946.3
Cyprus	NA	NA	NA	NA	NA	NA	12.0	15.0	15.0	15.0
Denmark	116.9	131.9	167.9	186.0	196.0	227.5	221.8	226.5	220.0	226.0
Finland	111.0	111.0	176.5	173.5	173.0	168.0	186.0	196.0	196.0	336.0
France	1,704.5	1,835.3	2,154.8	2,316.8	2,533.8	2,691.6	2,949.3	3,140.0	3,341.6	3,311.6
Germany, West	1,794.1	2,167.5	2,351.4	2,358.6	2,541.8	2,563.8	2,697.7	2,825.7	2,986.7	3,103.1
Greece	94.0	95.6	95.0	102.0	102.0	110.0	124.5	313.6	411.0	420.0
Ireland	48.0	52.0	54.0	55.0	55.0	55.0	58.0	58.0	56.0	56.0
Italy	2,038.0	2,389.3	2,886.8	2,962.6	3,235.3	3,682.1	3,593.1	3,882.0	3,952.7	4,082.2
Netherlands	667.4	787.4	872.4	1,362.4	1,392.5	1,643.8	1,825.5	1,825.5	1,840.7	1,984.7
Norway	63.0	103.0	113.0	123.0	202.0	167.4	173.0	168.0	168.0	259.0
Portugal	37.0	37.0	37.0	37.0	84.0	84.0	79.8	110.0	110.0	190.0
Spain	429.9	519.8	678.4	685.4	846.0	866.0	1,025.7	1,163.0	1,165.0	1,322.5
Sweden	80.0	220.0	244.0	230.0	236.0	259.1	243.6	248.0	248.0	413.2
Switzerland	95.0	100.0	100.0	106.0	102.0	107.6	120.0	140.0	138.0	138.0
Turkey	124.0	134.0	133.0	149.0	290.0	291.9	286.0	305.5	315.5	315.5
United Kingdom	1,736.5	1,844.0	2,071.4	2,301.4	2,392.3	2,588.3	2,464.6	2,762.1	2,783.0	2,888.8
Western Europe	**9,582.9**	**11,151.5**	**12,861.3**	**13,911.4**	**15,245.2**	**16,496.7**	**17,112.7**	**18,415.6**	**19,033.9**	**20,287.8**
Abu Dhabi	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bahrain	205.0	205.0	205.0	205.0	216.0	215.8	250.0	250.0	250.0	250.0
Iran	514.0	554.2	632.0	644.8	632.8	653.0	620.0	660.0	789.0	780.0
Iraq	77.9	77.9	82.9	103.5	102.9	101.5	98.5	98.5	168.5	168.5
Israel	100.0	115.0	115.0	107.0	132.0	140.0	147.4	212.0	201.0	181.0
Jordan	7.5	7.5	7.5	7.4	15.6	11.0	14.8	14.1	21.2	21.2
Kuwait	360.0	360.0	489.0	489.0	504.0	644.0	647.0	646.0	646.0	684.8
Qatar	0.6	0.6	0.6	0.7	0.9	0.6	0.7	1.0	6.8	7.4
Saudi Arabia	285.0	285.0	315.0	377.0	906.0	507.0	428.3	428.3	610.3	537.2
South Yemen	175.0	175.0	178.0	178.0	178.0	178.0	160.2	162.0	169.1	169.1
Syria	25.0	22.0	22.0	59.0	59.0	54.0	51.3	51.3	49.7	116.7
Other Middle East	86.2	116.5	116.5	117.5	134.5	54.5	53.5	53.5	53.5	53.5
Middle East	**1,836.2**	**1,918.7**	**2,163.5**	**2,288.9**	**2,881.7**	**2,559.4**	**2,471.7**	**2,576.7**	**2,965.1**	**2,969.5**
Eastern Hemisphere	16,079.3	18,114.2	20,700.7	22,551.1	25,117.6	26,776.2	28,325.2	31,030.7	32,479.6	34,453.8
Total Non-Communist	32,258.8	34,856.8	38,555.9	41,570.6	45,446.2	47,552.6	49,588.0	53,345.5	56,110.1	59,274.9

Worldwide Refining Capacity
By Country
Estimated at January 1
Thousands of barrels per day

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
United States	15,930.0	16,760.0	17,150.0	17,719.9	18,465.4	17,669.4	16,157.2	15,862.9	15,136.3	15,258.2
Canada	2,100.0	2,165.0	2,225.0	2,222.1	2,168.3	2,095.6	2,084.9	1,806.6	1,868.5	1,855.8
Argentina	703.1	655.2	655.0	676.2	678.6	676.7	675.7	678.4	678.4	667.2
Bahamas	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	350.0	NA
Brazil	1,117.6	1,161.0	1,209.2	1,205.0	1,401.6	1,406.6	1,219.0	1,301.4	1,305.1	1,305.1
Chile	139.5	129.5	144.0	139.2	139.2	141.0	141.0	141.0	141.0	141.0
Colombia	165.0	165.0	173.5	193.5	198.5	198.5	213.5	211.0	211.0	211.0
Ecuador	40.9	96.3	92.8	86.1	87.1	90.2	78.9	83.6	82.3	87.6
Mexico	935.0	1,383.5	1,243.5	1,393.5	1,393.5	1,470.0	1,289.0	1,269.0	1,269.0	1,269.0
Netherlands Antilles	810.0	842.0	842.0	792.0	782.0	782.0	782.0	740.0	740.0	320.0
Panama	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Peru	115.9	170.7	170.1	170.1	168.9	161.6	168.5	168.6	175.6	175.6
Puerto Rico	283.8	284.0	284.0	283.8	284.0	284.0	123.0	121.0	121.0	121.0
Trinidad & Tobago	461.0	461.0	461.0	456.0	456.0	456.0	375.0	375.0	320.0	260.0
Venezuela	1,446.3	1,445.5	1,445.5	1,445.5	1,348.8	1,323.1	1,283.7	1,224.2	1,224.2	1,229.7
Virgin Islands	728.0	782.0	728.0	728.0	728.0	640.0	600.0	600.0	545.0	600.0
Other Latin America	247.1	251.7	290.3	292.7	284.7	290.4	304.6	271.2	271.6	270.7
Latin America	7,793.2	8,427.4	8,338.9	8,461.6	8,550.9	8,520.1	7,853.8	7,784.4	7,534.2	6,757.9
Western Hemisphere	25,823.2	27,352.4	27,713.9	28,403.6	29,184.6	28,285.1	26,095.8	25,453.8	24,539.0	23,871.9
Australia	706.1	708.5	708.1	724.6	743.1	741.6	715.6	722.1	696.9	622.6
India	567.5	563.5	625.8	556.8	556.8	556.8	752.7	778.7	704.8	866.7
Indonesia	427.7	527.7	527.7	527.7	445.2	498.2	341.3	387.0	630.5	635.8
Japan	5,732.3	5,670.7	5,675.6	5,707.5	5,662.0	5,809.1	5,731.4	5,173.4	4,966.0	4,723.4
Korea, South	424.3	475.0	542.0	601.2	606.7	754.5	754.5	775.9	776.0	782.0
Malaysia	168.0	168.0	140.0	172.0	177.0	175.0	175.0	205.0	205.0	212.3
New Zealand	54.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	53.0	53.0
Pakistan	73.9	105.7	110.1	98.0	122.0	133.1	133.1	126.5	128.8	130.0
Philippines	251.0	253.0	253.3	253.3	246.3	286.0	286.0	286.0	286.0	216.0
Singapore	917.7	917.7	917.7	920.8	1,068.8	1,096.0	1,096.0	1,101.0	1,072.0	1,018.0
Sri Lanka	38.0	38.0	38.0	38.0	50.0	50.0	50.0	50.0	50.0	50.0
Taiwan	425.4	425.4	425.4	425.4	515.4	515.4	515.4	515.4	542.5	542.5
Thailand	160.7	160.7	160.7	186.0	186.0	176.0	176.0	176.0	171.6	191.9
Other Asia-Pacific	101.5	89.0	86.7	101.1	101.4	101.2	101.2	102.2	110.6	67.5
Asia-Pacific	10,048.0	10,176.9	10,285.0	10,386.4	10,554.7	10,966.8	10,902.2	10,473.1	10,393.6	10,111.7
Algeria	122.4	122.4	122.4	122.4	122.4	122.4	137.4	137.4	464.7	464.7
Egypt	236.0	234.0	251.0	234.0	292.0	292.0	340.7	369.3	369.3	434.2
Ivory Coast	40.5	39.0	39.0	50.4	50.4	50.4	90.1	90.1	90.1	90.0
Kenya	86.0	95.0	95.0	95.0	95.0	79.0	79.0	79.0	95.0	95.0
Libya	134.6	134.6	137.1	137.6	142.0	129.5	129.5	125.0	329.8	329.8
Morocco	67.8	72.0	72.0	72.0	72.0	72.0	74.0	74.0	79.7	81.3
Nigeria	60.0	60.0	159.0	160.0	160.0	253.5	260.0	247.0	250.4	250.4
South Africa	433.5	445.8	478.0	478.5	468.5	423.5	423.5	388.5	388.5	388.5
Other Africa	263.6	264.4	314.1	316.2	295.4	339.6	348.0	369.7	389.7	396.5
Africa	1,444.4	1,467.2	1,667.6	1,666.1	1,697.7	1,761.9	1,882.1	1,880.0	2,457.2	2,530.4

Worldwide Refining Capacity
By Country
Estimated at January 1
Thousands of barrels per day

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Austria	280.0	280.0	280.0	280.0	280.0	244.0	268.5	268.0	273.0	204.0
Belgium	1,095.3	1,067.3	971.9	1,064.0	1,055.9	1,034.5	692.6	694.1	692.5	652.1
Cyprus	15.0	15.0	15.0	16.0	16.0	16.0	15.5	15.0	16.0	16.0
Denmark	226.0	220.0	215.0	214.0	215.0	215.0	215.0	174.0	176.0	166.0
Finland	336.0	336.0	336.0	336.0	336.0	299.0	299.0	299.0	299.0	241.0
France	3,517.1	3,455.6	3,468.6	3,384.9	3,341.5	3,291.0	2,871.0	2,670.4	2,386.0	1,946.9
Germany, West	3,075.5	3,081.4	3,103.0	2,985.7	3,021.2	2,937.3	2,471.3	2,386.3	2,171.6	1,932.8
Greece	407.0	407.0	411.0	431.0	428.0	427.0	422.0	368.7	390.0	390.0
Ireland	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
Italy	4,259.1	4,226.2	4,196.9	4,131.3	4,091.9	4,002.6	3,283.4	3,050.1	3,095.2	2,738.1
Netherlands	2,030.7	1,868.7	1,857.3	1,827.5	1,827.0	1,707.5	1,551.5	1,551.5	1,498.5	1,468.4
Norway	259.0	264.0	264.0	264.0	252.7	242.7	242.7	242.7	244.2	240.0
Portugal	190.0	415.0	360.8	378.4	341.0	364.9	364.9	281.9	289.9	295.6
Spain	1,277.5	1,270.6	1,424.9	1,455.9	1,463.8	1,517.4	1,522.0	1,493.0	1,493.0	1,367.0
Sweden	434.5	423.9	410.9	457.9	450.9	470.8	452.8	452.8	439.0	429.0
Switzerland	137.3	137.3	137.3	137.3	102.3	137.3	137.3	137.0	127.0	137.0
Turkey	325.5	325.7	338.0	335.7	355.7	367.4	467.4	472.5	460.5	460.5
United Kingdom	3,014.3	2,911.0	2,526.8	2,527.5	2,629.5	2,481.5	2,259.5	2,091.5	2,007.7	1,791.7
Western Europe	20,935.7	20,760.6	20,373.3	20,283.0	20,264.5	19,811.9	17,592.4	16,704.4	16,115.1	14,532.0
Abu Dhabi	15.0	15.0	15.0	13.5	13.5	128.3	135.0	185.3	185.3	185.3
Bahrain	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0
Iran	780.5	910.5	920.5	920.5	1,120.5	530.0	530.0	530.0	530.0	530.0
Iraq	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	318.5	318.5
Israel	201.0	201.0	195.0	195.0	190.0	190.0	190.0	190.0	170.0	170.0
Jordan	24.4	29.6	30.3	20.7	36.2	91.3	100.0	100.0	100.0	100.0
Kuwait	684.8	712.0	712.0	645.0	645.0	623.0	623.0	622.8	668.6	633.6
Qatar	9.2	9.8	10.5	10.8	12.8	13.3	11.8	63.2	56.1	56.1
Saudi Arabia	603.2	586.1	487.3	487.3	487.3	487.3	705.0	860.0	840.0	1,115.0
South Yemen	169.1	142.9	142.9	175.0	175.0	178.0	178.0	130.0	178.0	161.5
Syria	116.7	102.4	223.0	223.0	223.0	223.0	228.8	228.8	228.8	228.8
Other Middle East	0.0	53.0	53.0	53.0	52.0	52.0	97.9	100.1	67.0	65.1
Middle East	3,022.4	3,180.8	3,208.0	3,162.4	3,373.9	2,934.8	3,217.9	3,428.6	3,592.2	3,813.8
Eastern Hemisphere	35,450.4	35,585.4	35,534.0	35,497.9	35,890.8	35,475.4	33,594.6	32,486.1	32,558.0	30,987.8
Total Non-Communist	61,273.6	62,937.7	63,247.9	63,901.5	65,075.4	63,760.5	59,690.5	57,940.0	57,097.0	54,859.7
China	1,398.0	1,461.0	1,578.0	1,600.0	1,810.0	1,810.0	2,000.0	2,050.0	2,150.0	2,150.0
U.S.S.R.	9,100.0	9,979.0	10,478.0	10,950.0	11,400.0	11,600.0	11,750.0	12,000.0	12,200.0	12,200.0
Other Communist	2,569.8	2,498.0	2,692.0	2,796.0	2,826.5	3,123.0	3,123.0	3,150.0	3,150.0	3,150.0
Total Communist	13,067.8	13,938.0	14,748.0	15,346.0	16,036.5	16,533.0	16,873.0	17,200.0	17,500.0	17,500.0
Total World	74,341.4	76,875.7	77,995.9	79,247.5	81,111.9	80,293.5	76,563.5	75,140.0	74,597.0	72,359.7

Worldwide Refining Capacity
By Country
Estimated at January 1
Thousands of barrels per day

	1987
United States	15,258.2
Canada	1,759.7
Argentina	669.8
Bahamas	NA
Brazil	1,321.1
Chile	150.5
Colombia	226.0
Ecuador	87.6
Mexico	1,349.0
Netherlands Antilles	320.0
Panama	100.0
Peru	175.6
Puerto Rico	121.0
Trinidad & Tobago	300.0
Venezuela	1,224.7
Virgin Islands	600.0
Other Latin America	271.8
Latin America	6,917.0
Western Hemisphere	23,934.9
Australia	626.1
India	991.1
Indonesia	635.8
Japan	4,790.1
Korea, South	862.0
Malaysia	212.3
New Zealand	54.0
Pakistan	130.0
Philippines	286.0
Singapore	961.0
Sri Lanka	50.0
Taiwan	542.5
Thailand	191.9
Other Asia-Pacific	67.5
Asia-Pacific	10,400.2
Algeria	464.7
Egypt	452.1
Ivory Coast	73.0
Kenya	95.0
Libya	329.4
Morocco	81.3
Nigeria	250.4
South Africa	388.5
Other Africa	389.2
Africa	2,523.6

Worldwide Refining Capacity
By Country
Estimated at January 1
Thousands of barrels per day

	1987
Austria	204.0
Belgium	647.5
Cyprus	16.0
Denmark	166.0
Finland	241.0
France	1,834.1
Germany, West	1,719.8
Greece	384.5
Ireland	56.0
Italy	2,678.7
Netherlands	1,400.8
Norway	240.0
Portugal	294.3
Spain	1,305.0
Sweden	436.5
Switzerland	65.0
Turkey	460.5
United Kingdom	1,779.7
Western Europe	13,929.3
Abu Dhabi	185.3
Bahrain	250.0
Iran	530.0
Iraq	318.5
Israel	180.0
Jordan	100.0
Kuwait	618.0
Qatar	62.0
Saudi Arabia	1,125.0
South Yemen	170.0
Syria	228.8
Other Middle East	95.1
Middle East	3,862.6
Eastern Hemisphere	30,715.8
Total Non-Communist	54,650.7
China	2,200.0
U.S.S.R.	12,260.0
Other Communist	3,150.0
Total Communist	17,610.0
Total World	72,260.7

Data from Oil & Gas Journal Energy Database.
Source: Oil & Gas Journal

Volume of Refined Products
Produced at OPEC Refineries
Thousands of barrels per day

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Algeria	29.1	36.1	33.6	40.9	41.7	42.6	47.9	45.2	53.4	100.9	89.9
Ecuador	13.2	15.0	15.7	16.7	20.1	21.2	23.8	26.5	27.8	31.0	35.4
Gabon	NA	NA	NA	1.4	13.4	13.9	16.7	18.6	17.8	20.2	17.3
Indonesia	169.9	194.4	181.9	175.3	178.9	198.4	200.8	217.8	270.4	292.0	307.2
Iran	351.2	385.2	402.3	413.7	460.8	492.4	509.6	527.9	524.4	554.7	592.3
Iraq	52.8	55.2	58.1	54.8	62.8	64.8	77.7	75.3	92.2	82.2	106.3
Kuwait	200.5	220.5	244.3	250.5	343.8	311.7	404.3	452.1	366.4	371.5	332.1
Libya	NA	NA	NA	5.2	6.8	7.9	8.7	7.7	8.6	8.4	7.6
Nigeria	NA	3.5	31.2	11.6	0.3	1.0	19.4	40.8	43.6	56.7	53.8
Qatar	0.4	0.4	0.4	0.4	0.6	0.4	0.7	0.5	0.6	0.7	0.5
Saudi Arabia	267.1	300.6	309.2	366.1	442.8	465.6	617.3	600.6	599.2	644.3	648.2
United Arab Emirates	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Venezuela	1,094.6	1,174.7	1,175.0	1,164.2	1,185.9	1,155.6	1,290.1	1,239.9	1,127.5	1,302.5	1,196.0
Total OPEC	2,178.8	2,385.6	2,451.7	2,500.8	2,757.9	2,775.5	3,217.0	3,252.9	3,131.9	3,465.1	3,386.6

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Algeria	113.2	100.4	88.5	141.1	153.0	217.4	283.7	400.2	386.8	407.9	426.1
Ecuador	39.8	42.0	39.4	79.6	85.3	90.3	86.7	89.9	73.3	90.7	83.6
Gabon	17.0	27.2	34.2	33.5	27.1	23.1	24.9	26.9	17.1	11.7	12.3
Indonesia	304.1	306.6	421.3	436.9	509.7	526.9	530.8	534.0	526.1	499.3	504.6
Iran	644.2	651.9	724.9	670.0	661.0	582.3	626.6	658.7	624.0	618.0	605
Iraq	135.5	154.7	166.4	182.6	183.0	187.0	190.0	190.5	292.0	340.0	315
Kuwait	289.6	360.7	351.0	373.3	439.8	336.5	276.3	420.0	468.4	478.9	545.2
Libya	37.6	51.0	94.2	113.6	98.4	108.6	111.3	121.6	126.4	128.5	129
Nigeria	46.7	55.5	48.2	60.2	89.0	120.9	151.9	162.1	151.2	160.2	161.4
Qatar	3.7	5.4	6.5	6.2	9.4	7.7	7.8	7.4	8.4	34.0	53.8
Saudi Arabia	577.6	703.4	731.4	776.9	834.9	826.2	834.2	851.4	914.5	954.7	956
United Arab Emirates	NA	6.1	11.0	10.8	11.3	11.8	54.8	84.0	108.6	142.2	148.5
Venezuela	869.5	986.0	975.8	991.4	1,009.7	933.0	874.0	881.7	893.6	907.8	947.8
Total OPEC	3,078.5	3,450.9	3,692.8	3,876.1	4,111.6	3,971.7	4,053.0	4,428.4	4,590.4	4,773.9	4,888.3

Data from Oil & Gas Journal Energy Database
Source: OPEC Secretariat

Stocks

Stocks are the inventory of the petroleum industry. Crude stocks are the raw material inventory and product stocks are the finished goods inventory. Stock levels are dependent upon the level of demand, the seasonal variation in demand, and the length of the distribution system.

But stock levels can also be influenced by other factors. Excess capacity in the refining industry can provide flexibility and reduce the level of stocks needed to meet contingencies. Additional crude can be run through refineries to meet unanticipated variation in product demand. However, this can add somewhat to crude stock levels.

The cost of maintaining stocks can also help determine the stock levels. If retaining excess stocks is more costly than the alternatives, then the industry will choose to reduce stock levels to a minimum consistent with prudent expectations for fluctuations in demand. But they will depend upon the economics of the market at any point in time. In 1986, with crude prices extremely low, refiners chose to take advantage of the favorable economics and boost crude oil stocks.

Industry stock levels in the U.S. moved up substantially in the early 1980's. The increase was a response to the vulnerability refiners perceived following the Iranian revolution. Crude supplies were reduced and prices skyrocketed. In addition, the U.S. government chose to influence product stock levels and requested industry maintain excessive levels of winter distillate stocks.

However, product demand continued to drop and the industry found itself with a huge stock excess. With existing high interest rates, the cost of retaining these contingency stocks was substantial. Therefore, in recent years the industry has reduced product stocks to a minimum and has retained a relatively high level of crude stocks to meet contingencies. Overall stock levels have been reduced substantially.

The Arab oil embargo in the early 1970's led to the development of the Strategic Petroleum Reserve (SPR). The SPR is U.S. government crude oil stocks held for emergency purposes. The specific way in which SPR stocks will be utilized has not been fully determined but the total SPR stock level continues to increase. SPR crude stocks now exceed industry crude stocks.

In many European countries industry refiners are required to maintain a minimum level of stocks based upon demand. The industry in effect maintains a strategic reserve for their governments.

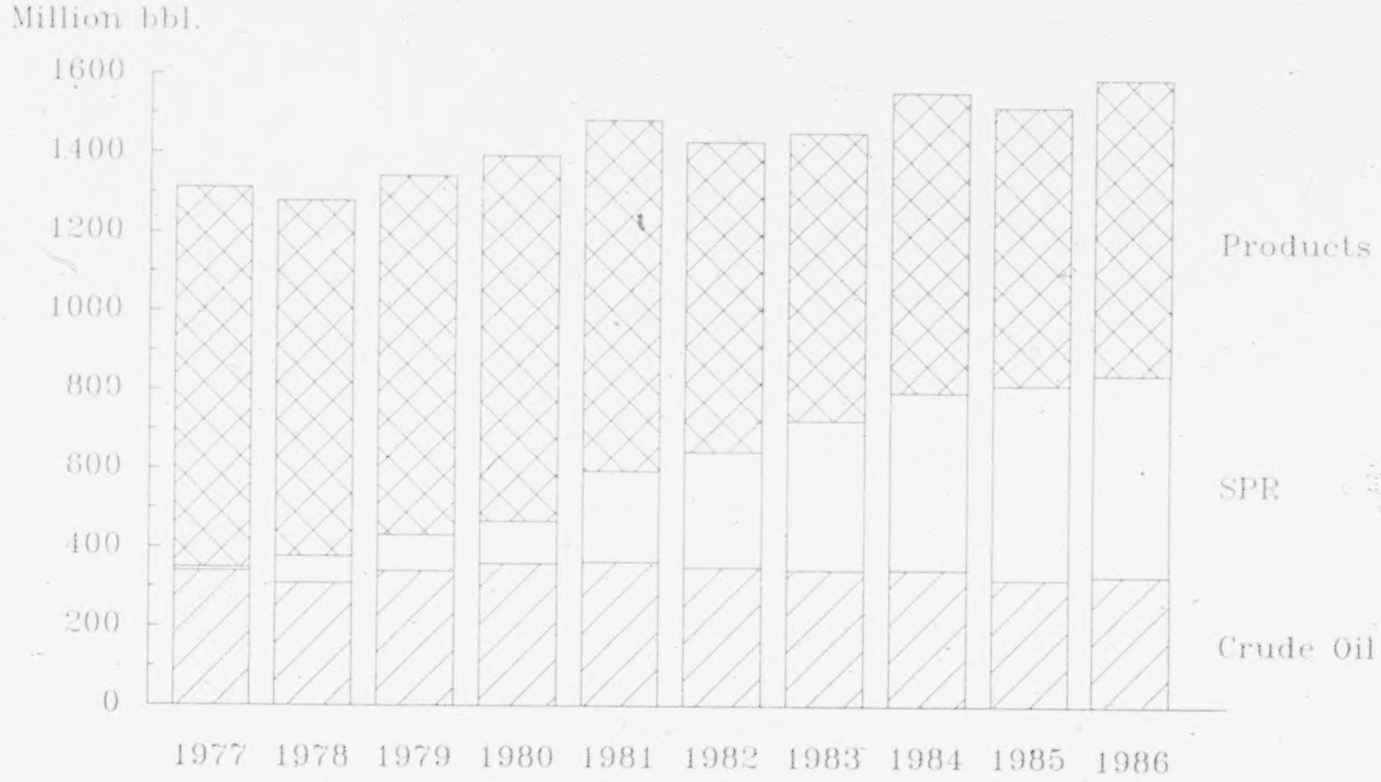
In order to adequately analyze short run swings in demand, the level of stocks must be taken into consideration. In the short run, stocks can be a key determinant of demand for crude and therefore, of the price level.

This chapter of the Energy Statistics Sourcebook provides detailed data on U.S. crude and product stocks. It also provides a graphic look at the relative level of stocks compared to demand -- day's supply. Detailed data are also provided for the OECD countries enabling analysis of stock levels in the industrial nations worldwide. This chapter contains all of the key stock data required for industry analysis.

Stocks

Crude Oil Stocks, Total U.S., Monthly, 179
SPR Crude Oil Stocks, Total U.S., Monthly, 180
Total Refined Product Stocks, Total U.S., Monthly, 181
Motor Gasoline Stocks, Total U.S., Monthly, 183
Motor Gasoline Stocks, By Type, Total U.S., Monthly, 184
Jet Naphtha Stocks, Total U.S., Monthly, 185
Jet Kerosine Stocks, Total U.S., Monthly, 186
Kerosine Stocks, Total U.S., Monthly, 187
Distillate Fuel Oil Stocks, Total U.S., Monthly, 188
Residual Fuel Oil Stocks, Total U.S., Monthly, 189
Liquified Petroleum Gases & Ethane Stocks, Total U.S., Monthly, 190
Total Petroleum Stocks, By OECD Country, Annual, 191
Crude Oil and Refined Products Stocks, Total OECD, Quarterly, 193

U.S. Stocks of Crude and Products



Source: EIA

U.S. Crude Oil Stocks
(Excluding SPR* Stocks)
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1971	269,806	266,864	267,246	271,445	284,320	279,337	273,235	272,417	269,771	265,899	265,552	259,648	**259,648**
1972	251,012	252,945	258,902	266,636	279,490	271,381	265,843	257,976	250,802	253,748	251,306	246,395	**246,395**
1973	237,469	235,362	244,131	248,783	257,867	248,857	243,673	248,314	241,276	246,297	249,998	242,478	**242,478**
1974	233,035	240,723	244,665	256,385	269,455	268,765	268,686	264,840	266,726	269,437	271,144	265,020	**265,020**
1975	270,462	276,755	279,989	281,908	280,961	276,132	264,157	256,616	259,446	269,584	270,950	271,354	**271,354**
1976	289,296	277,414	283,112	286,628	283,982	281,715	282,599	277,272	284,357	297,683	298,836	285,471	**285,471**
1977	294,116	291,462	299,533	318,872	328,755	333,746	335,313	338,865	334,133	340,549	345,197	340,228	**340,228**
1978	341,371	335,890	345,482	343,363	329,101	333,340	332,909	316,866	321,172	325,081	322,045	309,421	**309,421**
1979	302,059	302,374	316,690	319,075	316,322	325,860	312,946	320,965	323,939	344,854	347,415	339,074	**339,074**
1980	357,500	365,965	367,420	379,788	383,420	381,472	378,742	387,223	376,388	378,503	373,077	358,166	**358,166**
1981	373,965	378,161	392,954	397,497	393,718	384,736	385,852	362,001	355,982	364,023	365,995	363,464	**363,464**
1982	370,962	371,762	360,709	354,819	348,464	344,130	345,681	352,869	340,675	350,969	357,550	349,730	**349,730**
1983	359,835	363,265	355,003	361,150	352,521	350,530	335,131	348,702	346,659	348,919	341,434	343,850	**343,850**
1984	348,660	340,160	336,390	345,593	358,995	352,858	347,917	334,616	325,207	342,971	343,839	345,376	**345,376**
1985	336,127	321,509	329,624	341,908	356,630	344,058	326,977	318,474	317,365	313,687	320,943	320,892	**320,892**
1986	331,677	331,724	340,900	337,791	325,640	326,654	341,798	332,713	337,799	343,892	339,084	331,224	**331,224**

* Strategic Petroleum Reserve

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

U.S. Crude Oil Stocks in the Strategic Petroleum Reserve
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1977										2,646	5,084	7,455	**7,455**
1978	11,106	14,276	18,437	21,825	25,629	30,140	35,248	40,968	47,090	53,113	59,312	66,860	**66,860**
1979	73,142	78,166	82,501	83,867	86,880	88,567	90,101	91,189	91,189	91,191	91,191	91,191	**91,191**
1980	91,191	91,191	91,191	91,191	91,191	91,191	91,191	91,191	92,824	96,645	102,320	107,800	**107,800**
1981	112,490	116,057	120,860	134,170	150,068	163,081	173,128	184,674	199,247	214,777	222,542	230,341	**230,341**
1982	235,271	241,241	248,537	255,534	260,994	264,141	267,154	273,593	277,884	284,592	289,963	293,827	**293,827**
1983	300,613	306,133	311,830	317,735	326,833	332,484	340,672	351,780	361,000	367,240	371,291	379,089	**379,089**
1984	384,449	387,238	391,794	396,881	404,478	413,735	423,904	429,467	431,069	436,839	443,046	450,505	**450,505**
1985	457,409	460,138	461,617	464,940	471,930	476,571	483,538	487,126	489,255	489,881	491,464	493,316	**493,316**
1986	494,392	495,381	496,892	498,781	499,877	501,787	503,400	504,974	506,385	507,514	509,471	511,565	**511,565**

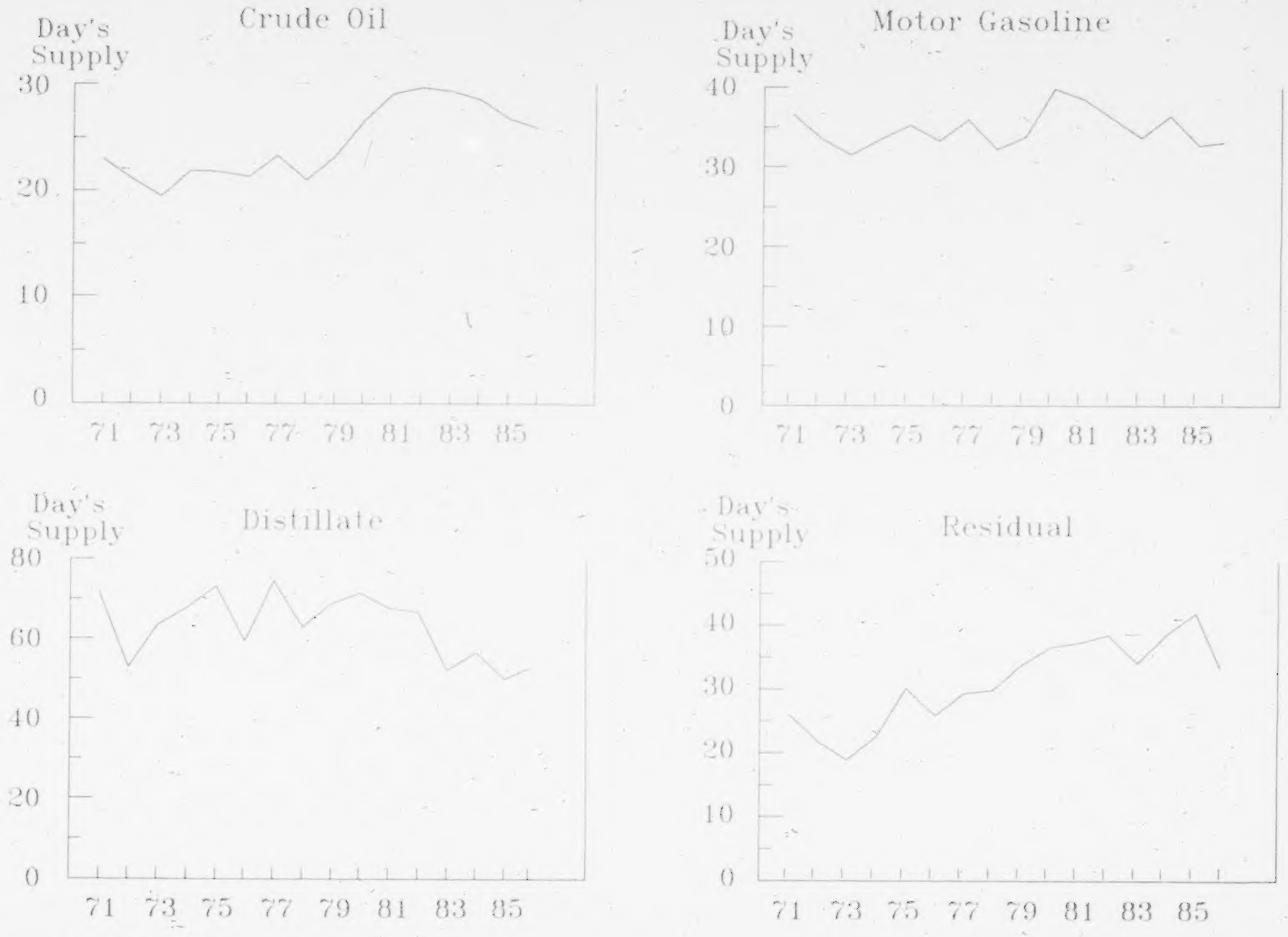
Data from Oil & Gas Journal Energy Database
Source: Energy Information Administration

Total U.S. Refined Product Stocks
(Including Unfinished Oils)
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1971	710,621	676,976	667,159	674,273	701,645	724,185	762,737	793,254	813,717	831,531	809,652	784,299	**784,299**
1972	762,922	711,158	683,398	679,998	704,943	720,251	757,555	767,331	795,386	796,874	762,613	712,584	**712,584**
1973	668,242	630,943	643,031	664,517	675,832	709,154	742,625	748,641	774,365	791,143	773,240	765,829	**765,829**
1974	742,028	706,448	708,430	726,201	760,580	791,432	818,761	836,121	847,109	836,245	832,202	808,626	**808,626**
1975	828,682	809,459	796,371	775,253	788,435	795,018	822,193	850,299	887,892	886,541	908,695	861,601	**861,601**
1976	799,324	792,822	777,377	770,407	789,240	811,335	851,795	880,438	907,183	906,172	881,984	826,339	**826,339**
1977	770,796	759,029	787,275	802,314	842,631	861,526	903,824	930,547	969,552	993,254	996,033	964,217	**964,217**
1978	916,057	841,142	803,891	808,880	821,991	821,644	854,251	863,558	894,670	901,295	910,238	901,338	**901,338**
1979	855,764	770,909	743,236	763,496	774,764	795,320	851,978	870,649	893,674	893,593	900,750	910,597	**910,597**
1980	902,478	886,164	889,231	896,092	912,203	938,273	955,501	970,174	977,835	954,518	957,037	926,262	**926,262**
1981	901,328	894,325	887,395	882,959	894,568	882,376	879,542	910,508	920,744	905,963	912,942	889,843	**889,843**
1982	849,618	815,171	782,701	735,197	737,231	751,902	780,624	782,004	795,405	796,857	807,690	786,367	**786,367**
1983	792,032	760,861	704,745	695,496	714,161	722,443	750,631	759,043	777,675	791,370	796,830	730,698	**730,698**
1984	696,140	735,982	716,102	719,270	732,724	735,988	741,235	733,427	756,505	764,116	769,437	760,346	**760,346**
1985	718,475	680,753	668,273	666,591	678,950	690,421	705,787	688,185	695,824	691,965	710,990	704,561	**704,561**
1986	709,244	686,721	650,766	642,921	677,305	714,452	727,534	744,610	773,791	759,042	763,465	749,723	**749,723**

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Day's Supply



Source: EIA

Total Motor Gasoline Stocks
(Including Blending Components)
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1971	232,079	245,310	245,659	230,349	221,714	209,595	203,010	204,225	207,885	208,525	208,959	219,352	**219,352**
1972	239,912	250,236	237,177	225,552	215,089	200,353	200,975	192,967	199,[illegible]27	207,915	209,032	212,894	**212,894**
1973	221,954	216,484	207,732	204,877	202,201	208,466	211,572	205,189	210,359	214,610	207,418	209,478	**209,478**
1974	217,542	219,105	220,347	223,805	218,711	217,421	218,889	219,004	227,070	220,797	218,444	218,410	**218,410**
1975	242,340	251,974	248,743	232,619	213,997	207,155	212,504	215,512	226,478	221,532	232,139	234,978	**234,978**
1976	240,510	248,901	239,097	224,008	225,079	225,408	226,961	230,614	229,793	226,355	227,787	231,432	**231,432**
1977	252,655	255,558	262,164	258,877	262,545	256,489	258,230	256,941	255,895	255,251	258,584	257,623	**257,623**
1978	272,097	270,868	259,597	248,925	233,534	219,484	216,399	208,999	216,524	213,692	220,542	237,979	**237,979**
1979	257,021	252,592	240,111	236,711	228,569	231,125	241,608	232,827	229,662	218,178	220,578	237,200	**237,200**
1980	262,274	274,543	282,832	271,971	263,201	264,957	260,877	259,135	258,304	246,517	257,289	261,406	**261,406**
1981	276,411	284,349	285,312	272,279	258,369	241,617	227,718	233,382	237,109	236,099	248,446	253,001	**253,001**
1982	260,894	256,708	246,574	221,288	213,941	218,504	225,875	226,926	233,628	234,399	230,063	235,431	**235,431**
1983	249,759	250,288	223,073	220,705	223,178	222,572	230,548	226,296	229,098	227,399	235,861	222,434	**222,434**
1984	225,695	237,104	242,633	247,990	252,634	245,523	238,101	224,363	234,146	232,418	240,136	243,296	**243,296**
1985	233,663	224,884	218,816	214,979	214,875	218,344	226,471	221,583	223,098	213,853	217,013	222,839	**222,839**
1986	238,330	243,530	218,756	207,454	220,502	230,480	224,028	221,586	233,945	222,356	229,370	233,057	**233,057**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Motor Gasoline Stocks
By Type, Total U.S.
Thousands of barrels

		January	February	March	April	May	June	July	August	September	October	November	December	Annual
1981:	Leaded	127,058	129,713	133,277	127,433	113,926	101,195	97,954	98,341	97,504	98,084	103,973	108,085	**108,085**
	Unleaded	99,457	100,107	99,069	95,839	98,673	92,734	87,662	90,213	93,148	92,365	96,617	95,325	**95,325**
1982:	Leaded	111,145	106,930	101,838	89,973	88,002	90,002	92,941	93,151	93,453	94,990	95,643	98,169	**98,169**
	Unleaded	102,076	101,438	96,216	88,554	85,066	87,100	89,687	91,973	97,613	97,372	93,686	96,259	**96,259**
1983:	Leaded	105,657	104,008	90,779	90,901	93,417	95,123	97,958	95,416	94,631	93,722	96,430	94,092	**94,092**
	Unleaded	101,555	102,523	91,944	91,900	91,959	87,741	91,888	89,426	94,685	93,370	99,592	91,411	**91,411**
1984:	Leaded	92,285	96,488	97,749	100,775	100,968	96,683	91,825	85,381	87,516	84,007	88,421	92,305	**92,305**
	Unleaded	93,261	100,163	104,371	106,366	109,436	107,460	107,911	100,486	106,586	109,032	110,117	112,887	**112,887**
1985:	Leaded	88,700	82,457	80,821	77,450	75,451	85,134	80,013	79,134	76,131	71,516	74,525	81,439	**81,439**
	Unleaded	109,658	106,733	104,819	104,358	105,629	101,114	112,052	108,988	111,318	108,636	108,735	108,869	**108,869**
1986:	Leaded	80,846	79,319	70,903	65,802	70,907	74,147	72,695	69,387	69,909	64,755	67,188	68,231	**68,231**
	Unleaded	120,221	126,110	113,107	108,056	116,906	121,623	117,216	117,950	126,084	119,691	123,263	126,011	**126,011**

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration

Total Jet Naphtha Stocks
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1971	6,910	7,040	6,917	6,606	6,692	6,934	7,202	6,681	6,645	6,795	7,005	6,990	**6,990**
1972	6,658	6,339	6,966	6,471	6,093	5,889	5,844	6,517	6,149	5,933	5,647	6,147	**6,147**
1973	5,953	5,486	5,899	5,209	5,055	4,603	4,280	4,268	4,652	4,242	4,939	5,599	**5,599**
1974	5,828	6,069	6,711	6,837	6,701	6,677	6,436	5,742	5,779	5,606	5,883	5,529	**5,529**
1975	5,548	5,415	6,155	5,777	5,484	5,253	5,578	5,654	5,797	5,864	5,812	5,222	**5,222**
1976	6,143	6,151	5,724	5,765	6,671	5,365	6,079	6,333	5,910	6,991	6,809	6,495	**6,495**
1977	5,748	6,389	6,047	5,464	5,543	5,746	6,176	5,907	5,259	6,384	6,129	6,285	**6,285**
1978	6,430	5,669	5,770	6,214	6,336	6,017	6,391	6,373	6,012	5,346	5,670	5,958	**5,958**
1979	6,217	5,639	5,264	5,570	5,752	5,090	5,067	4,847	4,693	5,195	4,911	5,599	**5,599**
1980	5,585	6,211	5,873	5,911	5,613	5,935	6,676	6,691	6,642	6,442	6,396	6,308	**6,308**
1981	6,122	5,857	5,754	5,544	5,682	6,047	6,034	6,879	6,097	6,593	6,734	7,054	**7,054**
1982	6,814	6,070	6,427	6,305	6,539	6,048	6,366	5,955	6,319	6,355	6,094	5,667	**5,667**
1983	6,956	6,706	6,870	6,412	6,657	6,907	7,060	6,377	6,596	6,027	6,405	6,265	**6,265**
1984	6,344	6,148	6,734	6,719	6,578	6,909	6,858	7,060	7,014	6,467	6,523	6,861	**6,861**
1985	6,415	6,183	6,767	6,205	6,428	6,227	6,977	6,982	6,857	6,738	6,793	6,654	**6,654**
1986	6,534	6,264	5,795	6,712	6,513	6,581	6,099	6,609	6,700	6,764	6,901	7,072	**7,072**

Data from Oil & Gas Journal Energy Database,
Source: Bureau of Mines, Energy Information Administration

Total Jet Kerosine Stocks
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1971	20,680	19,992	20,214	20,658	21,822	21,819	21,645	21,015	21,437	20,364	20,934	20,747	**20,747**
1972	19,199	18,891	20,181	21,097	22,792	22,467	23,585	25,132	24,448	22,700	21,003	19,346	**19,346**
1973	18,861	19,951	21,686	22,672	20,770	20,844	21,381	20,583	20,497	21,335	23,600	22,945	**22,945**
1974	23,904	23,548	23,285	24,888	25,623	25,523	25,235	25,247	24,407	24,958	23,733	23,906	**23,906**
1975	24,773	23,718	24,301	24,486	25,235	24,084	24,220	25,449	25,494	24,546	23,165	25,158	**25,158**
1976	24,475	25,029	26,895	27,567	27,993	27,514	26,653	26,788	27,294	27,041	27,050	25,590	**25,590**
1977	23,408	24,017	24,674	26,873	28,083	28,949	28,839	28,059	28,874	28,435	29,257	28,263	**28,263**
1978	28,105	27,628	26,180	28,417	32,036	31,637	31,659	29,374	29,316	27,758	27,159	27,707	**27,707**
1979	25,897	24,836	27,003	30,011	31,946	30,211	28,996	29,289	27,727	29,725	31,250	32,921	**32,921**
1980	32,827	32,047	32,801	33,428	35,733	36,348	34,228	33,640	35,536	36,670	37,508	35,723	**35,723**
1981	33,348	32,703	33,270	34,874	38,787	38,823	38,770	37,854	37,046	36,059	35,261	34,011	**34,011**
1982	30,044	30,878	36,094	37,756	35,203	33,885	33,415	34,707	33,327	34,495	34,516	31,180	**31,180**
1983	33,758	32,651	34,685	33,897	34,485	34,205	33,726	33,620	34,852	37,182	39,212	32,346	**32,346**
1984	29,234	32,929	33,917	34,056	34,488	36,089	36,780	38,526	37,989	38,214	38,401	35,118	**35,118**
1985	34,691	35,302	36,865	35,041	35,924	36,537	36,037	34,681	35,187	35,558	36,408	33,825	**33,825**
1986	35,051	37,829	41,729	38,831	38,807	39,703	42,481	41,884	42,233	43,853	43,237	42,677	**42,677**

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Total Kerosine Stocks
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1971	23,921	19,662	19,231	19,539	21,610	23,602	26,392	28,030	27,806	28,218	26,765	24,438	**24,438**
1972	21,339	17,408	15,693	16,363	17,132	18,640	21,481	22,060	22,917	21,956	21,351	19,111	**19,111**
1973	16,038	14,612	16,404	18,088	19,148	20,160	20,477	21,590	22,105	23,549	21,203	21,022	**21,022**
1974	17,486	15,609	15,001	14,873	16,579	17,315	17,195	17,086	17,079	16,999	16,707	15,269	**15,269**
1975	16,466	15,348	15,170	15,255	16,512	15,351	16,038	17,153	17,775	17,772	18,237	15,571	**15,571**
1976	11,906	11,379	11,744	11,748	12,914	13,051	13,403	14,951	15,178	15,626	14,404	12,514	**12,514**
1977	10,531	11,722	13,620	14,149	15,051	16,771	18,458	19,552	20,505	19,911	20,514	18,056	**18,056**
1978	14,402	11,611	11,883	12,905	13,564	14,893	16,067	16,723	16,110	15,804	15,518	14,330	**14,330**
1979	11,414	9,758	10,371	11,110	12,126	12,941	14,299	14,231	14,638	15,110	15,939	15,824	**15,824**
1980	14,042	13,277	13,071	13,427	13,760	13,869	14,288	13,330	12,944	12,457	12,672	11,570	**11,570**
1981	10,494	10,574	11,153	11,978	12,831	13,437	13,312	13,794	13,935	12,671	12,342	11,042	**11,042**
1982	9,530	9,080	8,755	9,588	8,943	9,263	9,082	9,491	9,838	10,219	11,344	10,420	**10,420**
1983	9,425	8,981	9,101	8,322	8,201	8,279	8,568	8,613	9,345	10,392	10,221	7,861	**7,861**
1984	7,555	9,252	7,822	6,683	7,311	7,887	8,028	8,488	8,943	11,241	10,814	11,893	**11,893**
1985	7,905	7,124	8,095	7,926	7,326	6,794	7,596	7,951	8,701	9,648	10,489	7,502	**7,502**
1986	7,272	6,735	6,179	6,837	6,258	6,652	6,881	6,859	8,344	8,277	8,502	8,379	**8,379**

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Total Distillate Fuel Oil Stocks
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1971	158,740	128,706	112,872	113,693	125,815	145,790	172,373	196,973	210,316	222,969	214,780	190,622	**190,522**
1972	160,073	122,194	101,765	98,324	112,926	128,779	155,593	174,702	190,289	195,570	182,619	154,319	**154,319**
1973	130,993	113,310	111,299	114,723	119,131	137,869	160,901	177,304	190,209	203,000	200,218	196,461	**196,461**
1974	181,217	149,162	128,852	125,587	141,843	160,680	182,495	198,710	208,308	209,945	212,913	200,068	**200,068**
1975	199,752	176,734	161,149	146,257	152,070	163,348	181,514	197,364	220,776	226,160	235,798	208,833	**208,833**
1976	165,477	150,472	138,340	137,285	147,097	165,110	190,900	217,969	232,268	235,638	223,685	185,986	**185,986**
1977	143,011	133,280	141,911	148,254	162,155	17[illegible],872	204,915	229,811	252,827	267,433	270,611	250,295	**250,295**
1978	213,278	165,731	137,864	136,182	144,648	157,269	180,453	200,194	200,707	233,100	233,248	216,463	**216,463**
1979	175,837	127,292	112,759	115,140	123,055	141,383	171,223	195,379	220,390	231,073	236,661	228,729	**228,729**
1980	212,412	191,657	177,866	177,241	183,405	196,566	213,835	226,331	232,373	225,707	222,365	205,132	**205,132**
1981	179,439	172,562	164,372	164,647	171,837	179,945	186,264	200,224	207,287	201,189	200,115	191,541	**191,541**
1982	164,380	147,446	126,305	107,958	113,644	123,688	148,150	158,658	161,199	170,148	185,580	178,592	**178,592**
1983	167,555	148,221	118,122	103,132	108,904	113,723	130,655	142,406	153,996	162,551	161,211	140,263	**140,263**
1984	119,317	132,242	109,572	97,690	98,144	112,849	124,421	133,317	142,943	152,236	160,970	161,072	**161,072**
1985	142,384	121,439	99,293	96,845	104,432	109,688	115,683	113,755	117,367	123,417	139,719	143,673	**143,673**
1986	136,490	112,402	98,811	95,907	98,857	107,895	118,905	137,737	152,403	151,617	158,263	155,097	**155,097**

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Total Residual Fuel Oil Stocks
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1971	53,878	48,900	49,425	50,623	55,371	58,735	63,716	65,904	66,519	68,547	59,934	59,681	**59,681**
1972	59,440	50,891	51,566	49,425	53,035	56,109	60,230	61,399	63,692	63,758	57,702	55,216	**55,216**
1973	49,154	43,058	44,711	47,044	49,207	51,811	53,363	53,586	55,091	54,964	51,985	53,480	**53,480**
1974	46,548	45,004	47,222	51,339	54,356	57,891	59,787	60,988	60,251	58,679	60,363	59,694	**59,694**
1975	69,233	66,495	64,148	66,340	73,498	69,660	71,526	71,857	76,938	81,858	83,131	74,126	**74,126**
1976	66,592	68,859	65,132	66,458	65,147	64,272	69,812	68,490	76,436	79,117	73,284	72,344	**72,344**
1977	64,760	71,429	71,192	70,186	73,420	72,036	77,840	78,798	87,522	95,896	95,155	89,993	**89,993**
1978	81,657	65,091	62,388	66,209	72,233	71,860	75,320	74,166	81,314	83,435	88,729	90,194	**90,194**
1979	81,853	67,899	71,652	79,959	84,261	79,816	85,907	87,622	87,789	91,611	90,799	95,598	**95,598**
1980	97,187	90,993	88,302	85,252	87,671	87,792	85,603	86,944	87,868	90,975	93,208	91,786	**91,786**
1981	82,145	77,933	74,841	72,862	78,134	69,404	69,348	74,902	80,191	79,931	81,391	77,992	**77,992**
1982	68,662	58,497	58,128	53,624	58,950	60,674	58,943	52,647	61,818	63,575	66,397	66,200	**66,200**
1983	60,538	53,332	46,293	46,578	50,957	49,869	51,860	48,284	49,681	51,241	54,156	48,504	**48,504**
1984	45,090	57,140	47,890	47,427	46,442	46,880	49,233	44,617	46,836	50,787	47,029	53,000	**53,000**
1985	46,201	45,053	46,127	46,195	41,397	39,622	40,507	34,681	35,187	35,558	50,263	50,381	**50,381**
1986	48,655	43,048	39,709	35,910	39,431	42,767	40,433	41,346	44,006	45,822	46,275	47,437	**47,437**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Total Liquified Petroleum Gases & Ethane Stocks
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1971	54,725	47,965	51,010	60,286	72,896	83,874	95,131	103,975	108,146	109,383	103,592	94,713	**94,713**
1972	82,426	71,883	72,687	79,951	92,728	101,210	109,840	114,891	119,351	115,493	103,167	85,717	**85,717**
1973	69,222	59,882	63,757	70,441	80,038	90,048	104,030	106,850	111,260	111,255	104,215	98,641	**98,641**
1974	90,079	88,500	92,905	99,447	109,353	116,628	124,405	130,711	131,257	128,932	122,391	112,542	**112,542**
1975	102,771	98,478	97,128	101,394	111,669	124,113	131,244	138,469	141,623	140,572	138,083	125,148	**125,148**
1976	109,021	105,524	108,521	113,983	122,308	130,361	138,413	143,615	147,192	143,899	134,239	116,295	**116,295**
1977	98,887	86,519	91,206	98,604	109,921	119,267	130,937	140,550	147,193	148,114	144,286	136,342	**136,342**
1978	121,726	111,549	112,610	121,539	129,422	138,467	147,276	155,075	156,786	152,362	144,231	132,009	**132,009**
1979	116,505	100,409	95,156	98,120	104,800	112,308	120,468	126,760	130,242	126,232	119,612	110,699	**110,699**
1980	96,418	90,345	90,130	100,291	107,247	116,806	125,587	134,748	137,139	134,477	132,027	120,455	**120,455**
1981	116,805	111,959	112,085	119,161	127,172	133,409	141,416	148,915	151,174	148,957	146,392	134,651	**134,651**
1982	120,913	114,112	107,570	104,632	106,836	109,412	109,829	111,235	110,137	107,139	101,900	93,975	**93,975**
1983	85,734	82,145	82,413	87,082	94,065	104,077	110,922	117,079	117,976	120,497	118,395	100,570	**100,570**
1984	92,601	89,065	88,684	92,855	100,282	106,326	110,628	113,721	115,214	110,934	108,265	100,849	**100,849**
1985	88,495	79,247	78,346	82,631	89,415	94,663	97,966	100,989	99,155	89,742	83,977	73,530	**73,530**
1986	71,043	68,006	71,052	77,062	87,493	102,200	116,162	126,464	130,719	123,015	115,400	102,658	**102,658**

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

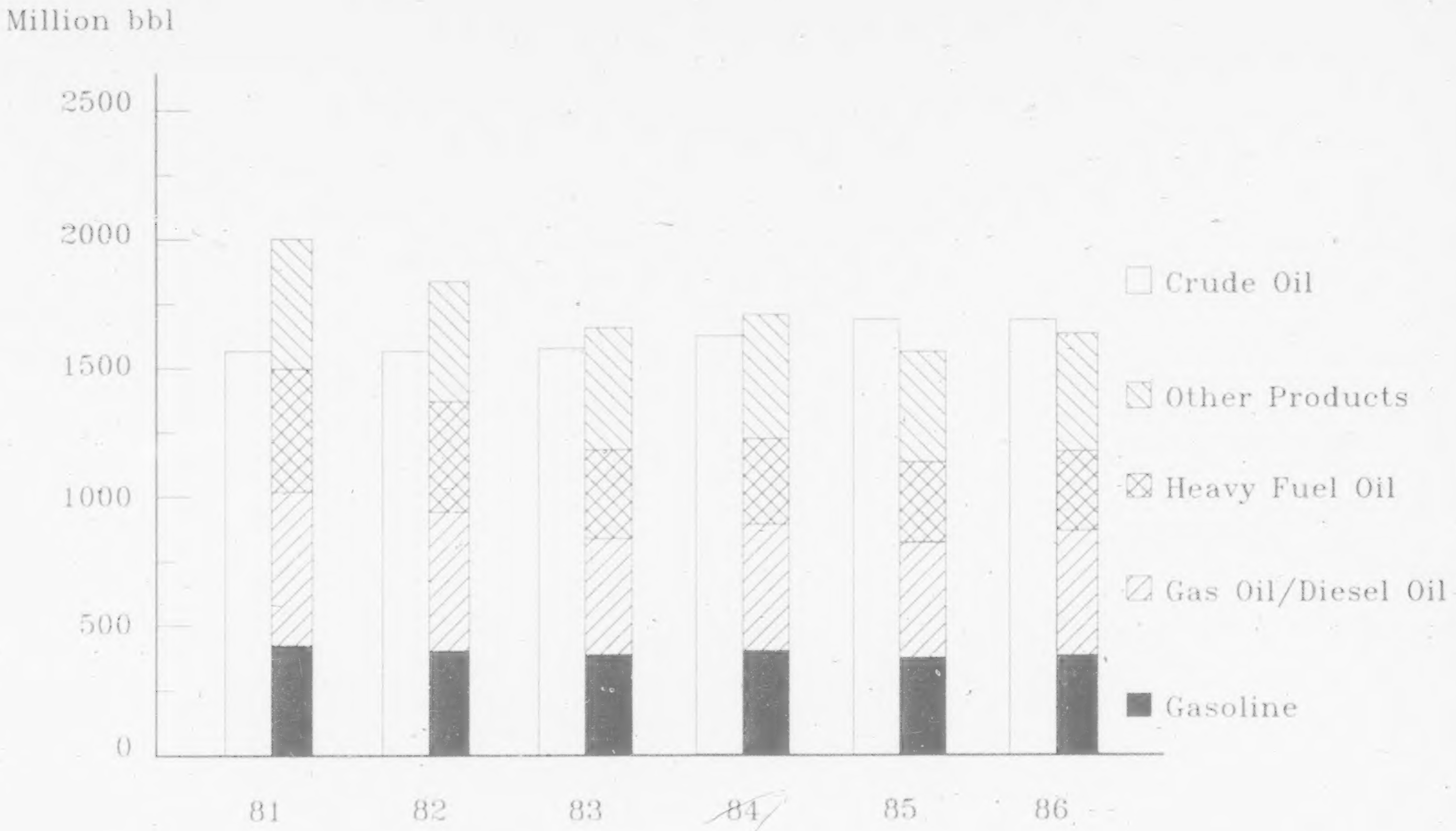
Petroleum Stocks for OECD Countries at Yearend
Million Barrels

	Canada	France	Italy	Japan	United Kingdom	United States	West Germany	Other OECD	Total OECD
1973	140.0	201.0	152.0	303.0	156.0	1,008.0	181.0	447.0	**2,588.0**
1974	145.0	249.0	167.0	370.0	161.0	1,074.0	213.0	501.0	**2,880.0**
1975	174.0	225.0	143.0	375.0	165.0	1,133.0	187.0	501.0	**2,903.0**
1976	153.0	234.0	143.0	380.0	165.0	1,112.0	208.0	523.0	**2,918.0**
1977	167.0	239.0	161.0	409.0	148.0	1,312.0	225.0	563.0	**3,224.0**
1978	144.0	201.0	154.0	413.0	157.0	1,278.0	238.0	537.0	**3,122.0**
1979	150.0	226.0	163.0	460.0	169.0	1,341.0	272.0	598.0	**3,379.0**
1980	164.0	243.0	170.0	495.0	168.0	1,392.0	319.0	636.0	**3,587.0**
1981	164.0	225.6	181.5	488.3	148.5	1,453.9	308.0	594.6	**3,564.4**
1982	138.6	203.7	192.8	474.2	128.6	1,415.6	283.4	564.9	**3,401.8**
1983	121.9	161.2	160.2	451.1	119.4	1,407.8	260.0	551.5	**3,233.1**
1984	128.0	160.6	171.4	483.8	115.6	1,502.8	249.3	522.0	**3,333.3**
1985	112.1	144.3	169.1	497.0	127.1	1,467.0	241.9	494.9	**3,253.3**
1986	108.9	130.4	166.1	512.5	128.5	1,529.7	262.4	542.6	**3,381.0**

Note: Data are converted from IEA figures in thousands of tonnes. U.S. data differ from those reported elsewhere in this publication due to data conversion; difference in source and timing of data reporting.

Data from Oil & Gas Journal Energy Database.
Source: Organization for Economic Cooperation and Development

Total OECD Crude & Products Stocks



Source: IEA

Crude Oil & Refined Products Stocks
Total OECD
Thousands of barrels

	Crude Oil & NGL	Total Refined Products	Total Gasoline	Gas Oil/ Diesel Oil	Heavy (Residual) Fuel Oil	Other Refined Products
1981						
1st Qtr	1,487,030	2,034,401	484,033	578,814	469,563	501,991
2nd Qtr	1,600,494	2,023,129	430,942	590,250	482,457	519,480
3rd Qtr	1,573,432	2,104,800	406,844	648,662	510,669	538,625
4th Qtr	1,561,363	2,003,037	428,876	590,631	478,301	505,229
1982						
1st Qtr	1,580,063	1,785,057	430,704	460,588	428,165	465,600
2nd Qtr	1,602,011	1,767,771	389,589	473,397	428,564	476,221
3rd Qtr	1,578,006	1,869,300	391,731	536,643	453,892	487,034
4th Qtr	1,565,174	1,836,609	403,487	538,754	430,010	464,358
1983						
1st Qtr	1,532,925	1,670,415	401,404	436,059	365,974	466,978
2nd Qtr	1,519,294	1,684,887	387,685	432,896	373,027	491,279
3rd Qtr	1,529,913	1,785,981	389,487	501,670	376,217	518,607
4th Qtr	1,576,674	1,656,377	389,317	448,264	344,708	474,088
1984						
1st Qtr	1,576,178	1,593,962	427,372	402,773	314,978	448,839
2nd Qtr	1,659,694	1,635,264	406,649	423,176	328,544	476,895
3rd Qtr	1,644,354	1,693,964	389,785	471,457	339,467	493,255
4th Qtr	1,625,336	1,708,002	404,328	489,055	332,041	482,578
1985						
1st Qtr	1,648,010	1,498,970	388,153	383,653	301,678	425,486
2nd Qtr	1,890,064	1,503,174	367,209	395,149	300,739	440,077
3rd Qtr	1,632,507	1,552,315	368,858	412,963	310,116	460,378
4th Qtr	1,689,287	1,563,989	376,389	445,116	313,533	428,951
1986						
1st Qtr	1,690,708	1,445,520	383,580	360,363	280,419	421,158
2nd Qtr	1,730,468	1,508,320	377,587	388,957	300,686	441,090
3rd Qtr	1,773,987	1,681,679	386,521	478,775	321,944	494,439
4th Qtr	1,746,615	1,634,355	385,322	481,834	308,838	458,361

Data from Oil & Gas Journal Energy Database.
Source: International Energy Agency

Notes

Imports and Exports

Imports of crude oil and petroleum products into the U.S. have fluctuated greatly over recent years. U.S. domestic demand for petroleum products far exceeds the level of domestic production of crude oil, condensate and natural gas liquids. As a result the U.S. is required to import large volumes of crude oil and petroleum products to meet demand.

As demand increased in the late 1970's imports provided the vast majority of the additional petroleum required. U.S. dependency on imported oil grew to 47.7% of domestic demand in 1977. Imports for domestic consumption (excluding the SPR) were 8.786 million b/d in 1977. Over the three year period 1977-1979, total imports (excluding the SPR) averaged 8.459 million b/d, 45.5% of domestic demand.

When demand started to fall, so did imports. The combination of an decrease in petroleum product demand and an increase in domestic production resulted in a sharp decline in industry imports into the U.S. Total crude and product imports fell to a low of 4.949 million b/d in 1985, only 31.5% of domestic demand.

Events in 1986 changed that trend abruptly and possibly permanently. Lower crude oil and product prices stimulated demand. Lower crude oil prices also led to a sharp drop in domestic production. The gap that developed was filled by imports. Total industry crude and product imports rose to 6.176 million b/d. This was 37.9% of domestic demand. Imports are expected to continue to increase for the foreseeable future.

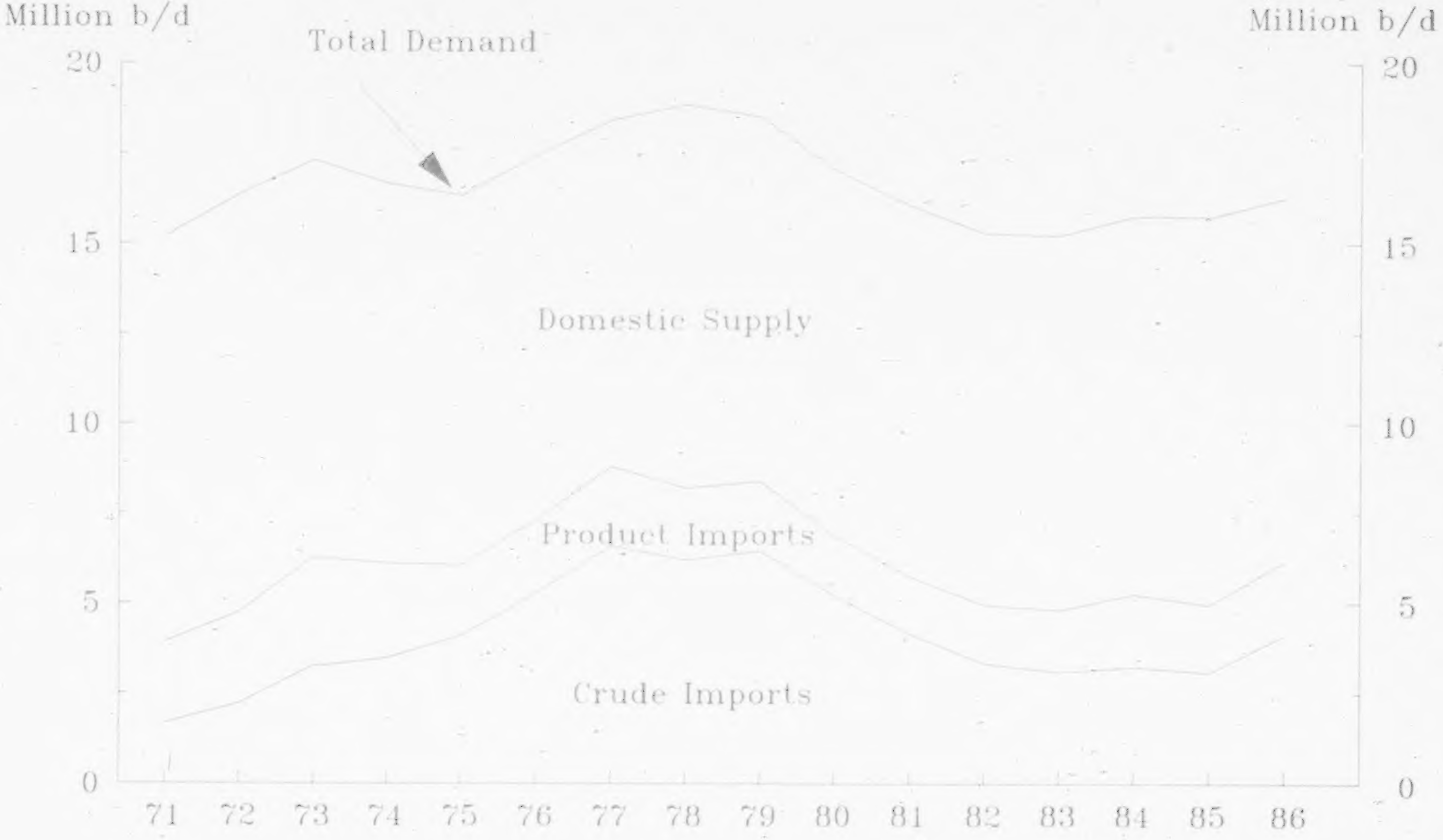
The trend in exports over recent years has not changed as drastically as imports, but there have been some significant changes. Exports of crude oil were insignificant in the early 1970's, but then jumped to around 200,000 b/d in the late 1970's and throughout the 1980's. Much of this is trade with Canadian refiners as a way of minimizing transportation costs. There are restrictions on the export of Alaskan crude that might more economically be shipped to the Far East, so crude exports have not changed much recently. Discussions have been under way to remove this export ban, or change the terms of it, but no decisions have been reached to date. Product exports moved up from a little over 200,000 b/d in the early 1970's to over 600,000 b/d in 1986.

This chapter of the Energy Statistics Sourcebook has all of the data necessary for analyzing these shifts in U.S. import and export patterns for crude oil and petroleum products. Data are provided on both crude and products imports along with detailed data by major product. The shifts in type and quantity of product imports can be analyzed with this data. Data are also provided on the sources of U.S. imports, both from OPEC and from non-OPEC nations. This enables an analyst to determine the vulnerability of U.S. supply from various geographic areas or countries. Detailed information on crude and product exports by major product are also provided. Individual product data allows the analyst to look for patterns like the recent increase in residual fuel oil exports from the west coast. This chapter contains all of the key data necessary for statistical analysis of U.S. imports and exports of crude oil and petroleum products.

Imports and Exports

Crude Oil Imports, Total U.S., Monthly, 199
SPR Crude Oil Imports, Total U.S, Monthly, 200
Total Crude & Products Imports, Total U.S., Monthly, 201
Total Refined Products Imports, Total U.S., Monthly, 202
Total Motor Gasoline Imports, Total U.S., Monthly, 203
Jet Naphtha Imports, Total U.S., Monthly, 204
Jet Kerosine Imports, Total U.S., Monthly, 205
Kerosine Imports, Total U.S., Monthly, 206
Distillate Fuel Oil Imports, Total U.S., Monthly, 207
Residual Fuel Oil Imports, Total U.S., Monthly, 208
Liquified Petroleum Gases & Ethane Imports, Total U.S., Monthly, 209
Crude Oil Imports from OPEC Nations, Total U.S, Annual, 210
Refined Product Imports from OPEC Nations, Total U.S., Annual, 211
Crude Oil Imports, By Country of Origin, Total U.S., Annual, 212
Refined Product Imports, By Country of Origin, Total U.S., Annual, 213
Crude Oil and Refined Product Imports, By OECD Country, Annual, 214
Crude Oil and Refined Product Imports, Total OECD, Quarterly, 215
Crude Oil Exports, Total U.S., Monthly, 216
Refined Product Exports, Total U.S., Monthly, 218
Motor Gasoline Exports, Total U.S., Monthly, 219
Jet Naphtha Exports, Total U.S., Monthly, 220
Jet Kerosine Exports, Total U.S., Monthly, 221
Kerosine Exports, Total U.S., Monthly, 222
Distillate Fuel Oil Exports, Total U.S., Monthly, 223
Residual Fuel Oil Exports, Total U.S., Monthly, 224
Liquified Petroleum Gases & Ethane Exports, Total U.S., Monthly, 225
Crude Oil and Refined Product Exports, By OECD Country, Annual, 226
Crude Oil and Refined Product Exports, Total OECD, Quarterly, 227
OPEC Crude Oil Exports, By Country, Annual, 228
OPEC Refined Products Exports, By Country, Annual, 229
World Trade Movements of Crude & Products, By Region, Annual, 230

U.S. Imports and Demand



Source: EIA

U.S. Crude Oil Imports
(Excluding SPR Imports)
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	1,121.7	1,344.8	1,394.7	1,506.9	1,501.3	1,677.9	1,766.7	1,895.3	1,900.4	1,923.1	1,985.2	2,127.8	**1,678.8**
1972	2,045.8	2,080.8	2,066.6	2,004.3	2,159.9	2,084.8	2,181.8	2,111.7	2,363.6	2,516.2	2,299.3	2,667.3	**2,215.2**
1973	2,732.0	2,872.6	3,162.0	3,048.6	3,214.6	3,220.4	3,501.0	3,592.5	3,470.6	3,738.9	3,452.3	2,891.4	**3,241.4**
1974	2,381.9	2,247.9	2,462.2	3,267.0	3,907.7	3,924.9	4,091.5	3,923.7	3,796.9	3,809.5	3,958.0	3,869.0	**3,470.0**
1975	4,029.1	3,828.4	3,656.3	3,377.9	3,486.2	3,904.7	4,192.5	4,581.2	4,689.2	4,389.3	4,623.4	4,476.2	**4,102.9**
1976	4,594.4	4,207.9	4,738.0	4,789.6	4,669.3	5,627.8	5,791.6	5,555.5	5,874.6	5,688.9	5,945.6	5,925.4	**5,284.0**
1977	6,261.1	6,636.6	6,678.9	6,784.7	6,797.6	7,044.4	7,047.6	6,374.7	6,408.4	6,481.6	6,300.1	6,306.4	**6,593.5**
1978	6,081.9	5,589.1	6,005.3	5,463.6	5,569.0	6,305.0	6,171.0	6,276.5	6,890.0	6,437.1	6,667.7	6,838.0	**6,191.2**
1979	6,720.9	6,343.8	6,252.1	6,145.4	6,163.1	6,582.4	6,561.3	6,773.5	6,425.5	6,889.8	6,227.9	6,318.1	**6,450.3**
1980	6,405.8	6,013.4	5,695.4	5,597.7	5,106.4	5,480.0	4,843.2	4,802.8	4,653.3	4,637.4	4,538.1	4,884.3	**5,221.5**
1981	4,826.5	4,793.3	4,381.7	4,065.9	3,901.1	3,742.6	4,120.5	3,922.2	4,305.1	3,927.0	3,774.5	3,971.2	**4,144.3**
1982	3,522.8	2,830.2	2,689.2	2,659.1	3,105.1	3,731.9	4,150.4	3,643.0	3,496.8	3,453.6	3,682.6	2,876.6	**3,320.1**
1983	2,745.7	2,070.0	2,089.2	2,913.3	3,071.1	3,387.1	3,597.0	3,876.1	3,901.4	3,243.8	3,166.3	3,020.2	**3,090.1**
1984	2,855.0	2,865.7	3,322.0	3,247.6	3,696.5	3,237.5	3,317.5	3,068.1	3,289.0	3,564.6	3,364.2	2,907.3	**3,227.9**
1985	2,494.0	2,009.9	2,737.9	3,293.2	3,507.7	3,033.6	2,977.1	2,998.8	3,084.1	3,217.8	3,945.8	3,621.3	**3,076.8**
1986	3,420.4	2,944.1	2,929.2	3,621.0	4,214.6	4,571.3	4,673.9	4,808.5	4,983.9	4,382.3	4,569.7	4,364.8	**4,123.6**

U.S. Crude Oil Imports
(Excluding SPR Imports)
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	34,772	37,655	43,235	45,207	46,540	50,337	54,768	58,755	57,012	59,617	59,557	65,962	**613,417**
1972	63,419	60,344	64,066	60,129	66,958	62,544	67,635	65,463	70,909	78,003	68,978	82,687	**811,135**
1973	84,693	80,433	98,021	91,459	99,654	96,613	108,530	111,368	104,117	115,905	103,570	89,633	**1,183,996**
1974	73,839	62,940	76,329	98,011	121,139	117,747	126,835	121,634	113,907	118,096	118,739	119,939	**1,269,155**
1975	124,901	107,194	113,345	101,338	108,072	117,142	129,966	142,016	140,675	136,068	138,703	138,761	**1,498,181**
1976	142,427	122,030	146,879	143,687	144,748	168,833	179,540	172,221	176,237	176,357	178,367	183,686	**1,935,012**
1977	194,094	185,826	207,046	203,540	210,726	211,331	218,476	197,617	192,252	200,931	189,004	195,498	**2,406 341**
1978	188,538	156,496	186,164	163,909	172,638	189,151	191,302	194,572	206,700	199,549	200,030	211,977	**2,261,026**
1979	208,347	177,627	193,815	184,363	191,057	197,472	203,400	209,979	192,766	213,583	186,837	195,861	**2,355,107**
1980	198,581	174,389	176,558	167,930	158,299	164,401	150,138	148,886	139,600	143,759	136,142	151,412	**1,910,095**
1981	149,620	134,211	135,832	121,976	120,933	112,279	127,736	121,588	129,153	121,737	113,234	123,107	**1,511,406**
1982	109,208	79,245	83,366	79,773	96,257	111,956	128,663	112,934	104,903	107,063	110,478	89,174	**1,213,020**
1983	85,116	57,961	64,765	87,398	95,203	101,614	111,508	120,159	117,043	100,559	94,988	93,625	**1,129,939**
1984	88,504	83,106	102,982	97,428	114,590	97,124	102,841	95,112	98,669	110,504	100,925	90,126	**1,181,911**
1985	77,313	56,277	84,875	98,797	108,740	91,009	92,290	92,962	92,524	99,752	118,375	112,260	**1,125,174**
1986	106,031	82,434	90,806	108,631	130,653	137,140	144,891	149,064	149,516	135,850	137,090	135,309	**1,507,415**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

U.S. Crude Oil Imports
for the Strategic Petroleum Reserve
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1977										93.0	73.0	79.0	**20.4**
1978	114.0	109.0	132.0	108.0	133.0	146.0	154.0	184.0	225.0	195.0	188.0	245.0	**161.1**
1979	204.3	178.6	122.1	65.9	97.5	-64.9	41.1	35.3	0.0	0.0	0.0	0.0	**57.5**
1980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.9	130.6	142.1	197.9	**43.7**
1981	106.0	80.0	139.6	272.4	385.6	318.0	175.0	257.1	435.3	453.4	271.5	165.5	**254.9**
1982	170.0	159.4	185.1	189.8	203.9	104.6	97.2	208.4	139.2	216.2	179.6	123.6	**164.7**
1983	218.5	197.1	200.7	205.1	288.7	189.9	273.9	350.4	308.9	202.0	170.5	192.7	**233.2**
1984	199.9	84.6	147.6	169.9	245.8	308.9	328.9	180.0	53.3	186.5	219.1	229.0	**196.1**
1985	222.7	97.8	48.0	108.2	222.5	154.5	225.7	115.6	70.8	20.2	52.8	74.2	**117.8**
1986	51.5	23.8	59.2	63.0	[illegible]	63.8	52.2	50.7	46.9	36.5	45.1	47.6	**48.0**

U.S. Crude Oil Imports
for the Strategic Petroleum Reserve
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1977										2,883	2,190	2,449	**7,522**
1978	3,534	3,052	4,092	3,240	4,123	4,380	4,774	5,704	6,750	6,045	5,640	7,595	**58,929**
1979	6,334	5,002	3,786	1,976	3,022	1,946	1,275	1,093	0	0	0	0	**24,434**
1980	0	0	0	0	0	0	0	0	1,618	4,050	4,263	6,136	**16,067**
1981	3,286	2,239	4,328	8,171	11,953	9,539	5,425	7,969	13,060	14,054	8,144	5,130	**93,298**
1982	5,271	4,463	5,738	5,694	6,320	3,137	3,014	6,459	4,176	6,702	5,387	3,831	**60,192**
1983	6,775	5,518	6,222	6,153	8,950	5,696	8,490	10,863	9,266	6,262	5,115	5,975	**85,285**
1984	6,197	2,452	4,575	5,096	7,620	9,267	10,197	5,581	1,599	5,782	6,573	7,099	**72,038**
1985	6,905	2,737	1,489	3,247	6,897	4,636	6,996	3,585	2,123	626	1,583	2,301	**43,125**
1986	1,596	666	1,835	1,889	1,104	1,913	1,618	1,573	1,407	1,133	1,354	1,475	**17,563**

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration

Total U.S. Crude and Product Imports
(Excluding SPR* Imports)
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	3,537.4	3,775.9	3,837.3	3,586.7	3,513.8	3,766.9	3,863.3	3,827.0	4,025.8	3,933.1	4,278.9	5,146.5	**3,924.4**
1972	4,767.2	4,845.1	4,796.6	4,302.3	4,367.7	4,466.8	4,396.6	4,455.5	4,705.8	5,123.1	4,952.2	5,706.0	**4,740.4**
1973	5,857.1	6,507.3	6,610.2	5,593.4	5,840.9	5,890.3	6,178.9	6,591.1	6,411.5	6,632.6	6,922.3	6,055.8	**6,257.6**
1974	5,370.7	5,216.0	5,273.8	5,979.6	6,493.4	6,360.0	6,536.5	6,361.2	6,051.8	6,175.2	6,798.4	6,666.8	**6,106.9**
1975	6,860.6	6,176.1	5,730.0	5,040.3	5,214.0	5,339.6	5,959.0	6,291.8	6,804.3	6,329.2	6,419.0	6,425.3	**6,049.1**
1976	6,713.6	6,711.8	6,686.7	6,595.3	6,323.1	7,474.4	7,883.6	7,382.2	7,924.1	7,535.9	8,060.3	8,447.3	**7,311.5**
1977	8,882.7	9,974.9	9,362.5	8,686.7	8,550.8	8,916.2	9,075.0	8,554.2	8,545.8	8,343.9	8,113.8	8,504.7	**8,792.6**
1978	8,174.3	7,944.1	8,342.9	7,579.4	7,372.9	7,944.7	8,119.2	8,134.1	8,872.7	8,155.4	8,688.8	9,083.3	**8,201.0**
1979	8,943.7	8,412.6	8,638.3	7,827.5	7,993.4	8,262.1	8,517.4	8,554.7	8,023.0	8,688.2	8,183.2	8,628.5	**8,389.4**
1980	8,598.0	7,944.7	7,452.4	7,105.9	6,578.7	6,894.4	6,257.2	6,191.9	6,185.2	6,248.2	6,265.8	6,696.2	**6,868.2**
1981	6,721.5	6,692.3	5,888.6	5,395.6	5,389.7	5,117.4	5,641.3	5,510.1	5,929.3	5,506.0	5,469.8	5,677.5	**5,744.9**
1982	5,162.2	4,647.3	4,299.1	4,188.2	4,607.6	5,222.5	5,792.5	5,035.4	5,275.1	5,089.7	5,564.8	4,482.0	**4,947.2**
1983	4,219.2	3,529.0	3,488.8	4,521.9	4,800.4	5,136.3	5,467.0	5,808.9	5,820.6	5,056.3	5,039.4	4,840.1	**4,810.7**
1984	5,230.1	5,608.2	5,153.6	5,202.4	5,732.8	5,173.3	5,078.3	4,864.2	5,198.3	5,592.3	5,367.7	4,703.6	**5,242.1**
1985	4,192.3	3,815.4	4,624.9	5,207.8	5,553.8	4,774.7	4,723.9	4,602.0	4,899.7	5,100.9	6,063.4	5,756.4	**4,942.9**
1986	5,521.2	4,652.7	4,652.9	5,376.5	6,364.3	6,784.1	6,889.5	7,117.3	7,042.8	6,390.6	6,546	6,652.8	**6,165.9**

Total U.S Crude and Product Imports
(Excluding SPR* Imports)
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	109,658	105,724	118,955	107,[illegible]	108,928	113,008	119,763	118,637	120,774	121,925	128,367	159,541	**1,432,880**
1972	147,784	140,508	148,695	129,069	135,398	134,004	136,294	138,120	141,173	158,816	148,567	176,886	**1,735,314**
1973	181,570	182,204	204,915	167,801	181,069	176,708	191,547	204,325	192,344	205,611	207,670	187,723	**2,283,493**
1974	166,492	146,049	163,488	179,389	201,294	190,799	202,632	197,197	181,554	191,430	203,952	206,671	**2,230,947**
1975	212,680	172,931	177,630	151,209	161,635	160,189	184,728	195,045	204,128	196,204	192,570	199,185	**2,208,135**
1976	208,122	194,642	207,287	197,860	196,015	224,233	244,393	228,848	237,723	233,613	241,808	261,867	**2,676,411**
1977	275,365	279,297	290,236	260,601	265,076	267,486	281,324	265,180	256,375	258,660	243,414	263,646	**3,206,660**
1978	253,404	222,436	258,630	227,381	228,560	238,340	251,694	252,157	266,182	252,816	260,663	281,582	**2,993,845**
1979	277,255	235,553	267,798	234,826	247,794	247,864	264,039	265,195	240,690	269,335	245,497	267,482	**3,063,218**
1980	266,539	230,396	231,024	213,177	203,940	206,831	193,973	191,949	185,555	193,695	187,974	207,583	**2,512,636**
1981	208,365	187,383	182,546	161,868	167,081	153,522	174,881	170,814	177,879	170,686	164,094	176,003	**2,095,122**
1982	160,028	130,125	133,271	125,646	142,835	156,676	179,566	156,098	158,252	157,781	166,944	138,942	**1,806,164**
1983	130,794	98,811	108,153	135,658	148,811	154,090	169,476	180,077	174,617	156,745	151,182	150,043	**1,758,457**
1984	162,134	162,638	159,763	156,072	177,718	155,199	157,421	150,791	155,948	173,362	161,032	145,811	**1,917,895**
1985	129,962	106,830	143,372	156,235	172,148	143,242	146,441	142,663	146,991	158,129	181,901	178,449	**1,806,383**
1986	171,158	130,275	144,239	161,294	197,292	203,523	213,573	220,637	211,283	198,108	196,399	206,237	**2,254,019**

* Strategic Petroleum Reserve

Data from Oil & Gas Journal Energy Database
Source Bureau of Mines Energy Information Administration

Total U.S. Refined Product Imports
(Including Unfinished Oils)
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	2,415.7	2,431.0	2,442.6	2,079.8	2,012.5	2,089.0	2,096.6	1,931.7	2,125.4	2,009.9	2,293.7	3,018.7	**2,245.5**
1972	2,721.5	2,764.3	2,730.0	2,298.0	2,207.7	2,382.0	2,214.8	2,343.8	2,342.1	2,606.9	2,653.0	3,038.7	**2,525.2**
1973	3,125.1	3,634.7	3,448.2	2,544.7	2,626.3	2,669.8	2,678.0	2,998.6	2,940.9	2,893.7	3,470.0	3,164.4	**3,016.2**
1974	2,988.8	2,968.2	2,811.6	2,712.6	2,585.6	2,435.1	2,445.1	2,437.5	2,254.9	2,365.6	2,840.4	2,797.8	**2,636.9**
1975	2,831.6	2,347.8	2,073.7	1,662.4	1,727.8	1,434.9	1,766.5	1,710.6	2,115.1	1,939.9	1,795.6	1,949.2	**1,946.3**
1976	2,119.2	2,503.9	1,948.6	1,805.8	1,653.8	1,846.7	2,092.0	1,826.7	2,049.5	1,847.0	2,114.7	2,522.0	**2,027.5**
1977	2,621.6	3,338.3	2,683.5	1,902.0	1,753.2	1,871.8	2,027.4	2,179.5	2,137.4	1,862.2	1,813.7	2,198.3	**2,199.1**
1978	2,092.5	2,355.0	2,337.6	2,115.7	1,803.9	1,639.6	1,948.1	1,857.6	1,982.7	1,718.3	2,021.1	2,245.3	**2,009.8**
1979	2,222.8	2,068.8	2,386.2	1,682.1	1,830.2	1,679.7	1,956.1	1,781.2	1,597.5	1,798.5	1,955.3	2,310.4	**1,939.1**
1980	2,192.2	1,931.3	1,757.0	1,508.2	1,472.3	1,414.3	1,414.0	1,389.1	1,531.8	1,610.8	1,727.7	1,812.0	**1,646.7**
1981	1,895.0	1,899.0	1,506.9	1,329.7	1,488.6	1,374.8	1,520.8	1,587.9	1,624.2	1,579.0	1,695.3	1,706.3	**1,600.6**
1982	1,639.4	1,817.1	1,609.8	1,529.1	1,502.5	1,490.7	1,642.0	1,392.4	1,778.3	1,636.1	1,882.2	1,605.4	**1,627.1**
1983	1,473.5	1,458.9	1,399.6	1,608.7	1,729.3	1,749.2	1,869.9	1,932.8	1,919.1	1,812.5	1,873.1	1,819.9	**1,720.6**
1984	2,375.2	2,742.5	1,831.6	1,954.8	2,036.4	1,935.8	1,760.8	1,796.1	1,909.3	2,027.7	2,003.6	1,796.3	**2,014.2**
1985	1,698.4	1,805.5	1,887.0	1,914.6	2,046.1	1,741.1	1,746.8	1,603.3	1,815.6	1,883.1	2,117.5	2,135.1	**1,866.2**
1986	2,100.9	1,708.6	1,723.6	1,755.4	2,149.7	2,212.8	2,215.5	2,308.8	2,058.9	2,008.3	1,977.0	2,288.0	**2,042.3**

Total U.S. Refined Product Imports
(Including Unfinished Oils)
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	74,886	68,069	75,720	62,393	62,388	62,671	64,995	59,882	63,762	62,308	68,810	93,579	**819,463**
1972	84,365	80,164	84,629	68,940	68,440	71,460	68,659	72,657	70,264	80,813	79,589	94,199	**924,179**
1973	96,877	101,771	106,894	76,342	81,415	80,095	83,017	92,957	88,227	89,706	104,100	98,096	**1,099,497**
1974	92,653	83,109	87,159	81,378	80,155	73,052	75,797	75,563	67,647	73,334	85,213	86,732	**961,792**
1975	87,779	65,737	64,285	49,871	53,563	43,047	54,762	53,030	63,453	60,136	53,867	60,424	**709,954**
1976	65,695	72,612	60,408	54,173	51,267	55,400	64,653	56,627	61,486	57,256	63,441	78,181	**741,399**
1977	81,271	93,471	83,190	57,061	54,350	56,155	62,848	67,563	64,123	57,729	54,410	68,148	**800,319**
1978	64,866	65,940	72,466	63,472	55,922	49,189	60,392	57,585	59,482	53,267	60,633	69,605	**732,819**
1979	68,908	57,926	73,973	50,463	56,737	50,392	60,639	55,216	47,924	55,752	58,660	71,621	**708,211**
1980	67,958	56,007	54,466	45,247	45,641	42,430	43,835	43,063	45,955	49,936	51,832	56,171	**602,541**
1981	58,745	53,172	46,714	39,892	46,148	41,243	47,145	49,226	48,726	48,949	50,860	52,896	**583,716**
1982	50,820	50,880	49,905	45,873	46,578	44,720	50,903	43,164	53,349	50,718	56,466	49,768	**59[illegible],144**
1983	45,678	40,850	43,388	48,260	53,608	52,476	57,968	59,918	57,574	56,186	56,194	56,418	**62[illegible],518**
1984	73,630	79,532	56,781	58,644	63,128	58,075	54,586	55,679	57,279	62,858	60,107	55,685	**735,984**
1985	52,649	50,553	58,497	57,438	63,428	52,233	54,151	49,701	54,467	58,377	63,526	65,189	**681,209**
1986	65,127	47,841	53,432	52,663	66,640	66,383	68,682	71,573	61,767	62,258	59,309	70,928	**746,603**

* Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Total Motor Gasoline Imports
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	69.6	46.8	64.2	63.1	50.5	51.4	53.3	54.1	57.3	36.0	76.8	88.2	**59.3**
1972	50.8	65.6	67.0	52.3	73.8	74.8	68.9	81.0	69.5	70.8	69.3	68.6	**67.7**
1973	59.4	95.3	70.7	63.4	101.5	173.8	132.6	164.2	127.2	194.2	216.4	202.2	**133.4**
1974	162.8	184.4	224.5	259.7	250.1	210.8	211.7	253.2	201.9	171.1	174.1	141.0	**203.8**
1975	261.8	170.9	149.8	133.0	141.9	176.8	208.9	231.7	269.2	207.0	139.3	118.7	**184.1**
1976	91.9	83.7	122.8	99.3	111.6	187.7	189.8	141.4	170.6	137.5	146.0	83.5	**130.5**
1977	231.0	188.2	257.3	268.5	201.9	245.9	248.0	189.6	221.6	179.2	178.9	197.4	**217.3**
1978	214.3	200.8	141.0	177.4	168.7	234.0	211.5	179.0	250.9	181.2	147.2	182.2	**190.7**
1979	178.9	159.7	167.8	155.7	144.9	260.5	222.7	147.5	134.9	150.2	182.2	263.3	**180.7**
1980	141.4	153.7	154.6	154.5	132.0	147.5	149.1	140.8	105.9	151.6	126.4	121.4	**139.9**
1981	137.5	111.3	170.6	186.3	149.8	185.9	150.8	123.6	169.1	147.0	148.3	197.3	**156.5**
1982	128.1	133.2	183.2	185.0	182.4	230.2	225.4	291.4	223.3	185.1	211.3	178.2	**196.4**
1983	153.2	128.0	185.5	254.9	304.5	276.6	302.4	249.9	279.1	329.6	268.8	223.8	**246.4**
1984	231.0	298.6	355.2	318.9	345.7	296.3	246.8	241.9	348.9	308.1	285.6	307.9	**298.7**
1985	203.6	347.6	480.9	494.3	480.2	396.3	426.1	304.5	314.2	323.8	410.3	386.2	**380.7**
1986	332.4	334.4	224.5	291.3	470.9	391.8	337.5	302.8	302.8	322.1	279.7	319.6	**325.8**

Tota' Motor Gasoline Imports
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	2,158	1,309	1,991	1,893	1,566	1,541	1,652	1,676	1,718	1,115	2,304	2,735	**21,658**
1972	1,574	1,903	2,076	1,569	2,287	2,244	2,136	2,512	2,084	2,195	2,080	2,127	**24,787**
1973	1,841	2,667	2,193	1,902	3,146	5,214	4,110	5,091	3,316	6,020	6,492	6,267	**48,759**
1974	5,047	5,163	6,960	7,790	7,754	6,324	6,562	7,849	6,056	5,303	5,224	4,370	**74,402**
1975	8,115	4,784	4,645	3,989	4,398	5,304	6,475	7,184	8,077	6,417	4,180	3,681	**67,249**
1976	2,850	2,427	3,806	2,980	3,461	5,631	5,883	4,384	5,119	4,264	4,379	2,590	**47,774**
1977	7,160	5,270	7,977	8,056	6,258	7,378	7,688	5,879	6,649	5,555	5,368	6,118	**79,356**
1978	6,642	5,623	4,370	5,323	5,229	7,019	6,558	5,549	7,526	5,616	4,416	5,647	**69,518**
1979	5,545	4,472	5,202	4,671	4,493	7,815	6,903	4,573	4,046	4,657	5,467	8,162	**66,006**
1980	4,383	4,457	4,792	4,636	4,093	4,425	4,621	4,365	3,176	4,700	3,793	3,763	**51,204**
1981	4,263	3,116	5,289	5,589	4,643	5,577	4,676	3,832	5,074	4,557	4,448	6,117	**57,181**
1982	3,970	3,729	5,680	5,551	5,653	6,905	6,987	9,032	6,700	5,739	6,340	5,523	**71,809**
1983	4,748	3,584	5,752	7,646	9,440	8,298	9,375	7,747	8,374	10,218	8,063	6,939	**90,184**
1984	7,162	8,659	11,011	9,566	10,717	8,889	7,652	7,500	10,468	9,550	8,568	9,544	**109,286**
1985	6,312	9,733	14,908	14,828	14,886	11,888	13,208	9,441	9,427	10,039	12,310	11,973	**138,953**
1986	10,305	9,362	6,958	8,738	14,597	11,754	10,461	9,386	9,084	9,985	8,392	9,908	**118,930**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines. Energy Information Administration

Total Jet Naphtha Imports
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	22.1	32.3	18.2	15.4	20.5	46.7	35.0	45.6	41.5	29.5	29.0	29.4	**30.4**
1972	27.0	21.0	12.6	14.8	36.2	37.4	26.6	23.5	29.8	53.5	61.2	49.4	**32.8**
1973	25.1	15.7	12.7	28.2	22.0	30.9	31.6	59.9	40.6	71.5	56.5	41.3	**36.3**
1974	4.7	0.9	9.4	17.6	45.7	27.2	38.9	50.1	48.3	25.9	32.9	25.3	**27.2**
1975	23.5	35.1	30.5	13.8	23.0	21.7	15.8	27.8	47.3	26.4	33.3	42.4	**28.4**
1976	10.4	22.1	5.3	11.9	29.2	14.8	17.1	8.7	11.2	15.1	16.2	18.9	**15.1**
1977	6.6	8.8	23.9	35.2	20.2	14.5	33.0	13.6	7.3	30.9	27.1	34.5	**21.3**
1978	8.8	17.5	16.4	42.1	28.7	3.9	34.1	22.9	6.3	10.3	29.7	8.3	**19.1**
1979	24.4	18.0	6.2	12.1	16.8	28.6	23.4	15.8	14.8	32.8	38.3	37.3	**22.4**
1980	31.7	20.1	50.8	39.5	35.9	40.3	42.6	15.3	25.5	15.7	26.6	27.1	**30.9**
1981	0.0	6.2	23.0	10.1	13.8	15.2	14.2	3.6	0.0	0.0	0.0	1.6	**7.3**
1982	3.3	7.8	0.0	6.1	11.9	0.0	8.1	6.9	15.8	2.9	0.0	0.0	**5.2**
1983	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	2.7	0.0	0.0	7.1	**0.9**
1984	14.1	3.7	11.2	60.9	27.1	16.2	0.0	20.8	0.0	0.0	14.6	1.7	**14.2**
1985	18.8	8.7	16.6	3.5	5.5	14.6	8.1	3.5	0.3	13.3	9.4	1.9	**8.7**
1986	2.4	1.8	4.8	4.5	15.0	8.9	15.7	8.3	5.7	7.0	11.2	20.5	**8.8**

Total Jet Naphtha Imports
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	684	903	565	462	637	1,401	1,086	1,413	1,245	916	870	910	**11,092**
1972	836	610	391	444	1,123	1,121	825	730	894	1,657	1,835	1,532	**11,998**
1973	777	440	394	846	681	926	981	1,858	1,219	2,218	1,695	1,280	**13,315**
1974	145	26	292	529	1,417	816	1,206	1,553	1,449	802	987	784	**10,006**
1975	730	984	947	413	713	650	490	861	1,420	818	998	1,315	**10,339**
1976	323	642	164	357	906	445	529	271	336	469	485	587	**5,514**
1977	205	245	742	1,057	627	435	1,022	423	219	958	812	1,071	**7,816**
1978	272	491	507	1,264	889	117	1,057	710	188	320	892	256	**6,963**
1979	756	503	192	363	521	858	725	490	445	1,016	1,149	1,155	**8,173**
1980	984	584	1,576	1,185	1,114	1,208	1,322	475	765	486	799	839	**11,337**
1981	0	174	712	302	428	457	441	112	0	0	0	49	**2,675**
1982	101	217	0	182	370	0	250	215	474	91	0	0	**1,900**
1983	0	0	0	0	0	21	0	0	80	0	0	220	**321**
1984	438	106	347	1,826	839	485	0	646	0	0	438	54	**5,179**
1985	584	244	515	104	172	439	250	107	10	412	283	60	**3,180**
1966	75	50	149	135	466	268	487	258	171	216	336	637	**3,248**

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Total Jet Kerosine Imports
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	91.2	165.0	132.3	118.7	141.2	159.3	166.4	151.2	151.2	133.1	145.1	241.8	**149.7**
1972	151.8	199.2	154.1	109.0	123.0	254.5	138.3	157.5	159.9	232.9	123.3	139.2	**161.9**
1973	205.8	205.7	139.7	116.9	188.6	132.7	199.9	119.8	194.3	174.8	218.2	217.3	**176.1**
1974	131.1	74.0	129.3	114.5	159.5	113.8	175.3	156.1	168.4	134.8	106.9	152.7	**134.7**
1975	205.8	164.4	99.1	123.6	110.5	84.1	71.9	104.5	92.7	79.8	55.6	67.0	**104.9**
1976	58.5	48.8	80.5	96.5	76.4	53.3	113.3	29.0	51.6	35.0	39.5	53.2	**61.3**
1977	70.6	65.6	74.8	50.6	37.0	15.6	52.4	56.9	45.8	36.3	79.9	55.0	**53.4**
1978	51.3	59.0	82.1	79.7	78.9	55.0	70.8	63.4	68.6	55.1	58.9	77.9	**66.7**
1979	72.3	75.6	54.6	36.7	61.1	28.4	67.0	32.8	69.5	57.0	45.0	70.8	**55.9**
1980	64.5	22.6	48.9	70.3	36.6	45.9	50.4	51.2	51.1	70.0	36.8	33.3	**48.5**
1981	14.6	31.4	52.7	45.0	32.9	53.2	20.7	43.8	45.5	14.0	9.1	5.8	**30.7**
1982	7.0	54.7	38.7	41.4	18.7	2.8	22.8	19.4	14.3	17.2	39.7	7.3	**23.7**
1983	26.8	8.1	35.4	15.4	29.3	24.9	30.1	40.1	41.2	49.5	22.7	16.9	**28.4**
1984	50.9	110.4	37.6	42.0	29.3	35.9	40.2	77.2	33.4	56.0	21.9	37.6	**47.7**
1985	48.7	28.9	30.0	13.8	24.0	20.1	42.8	9.5	34.0	41.6	32.4	35.4	**30.1**
1986	25.0	33.1	24.5	38.9	38.7	76.2	105.6	76.7	54.4	30.8	47.5	27.5	**48.2**

Total Jet Kerosine Imports
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	2,828	4,621	4,101	3,560	4,376	4,778	5,157	4,688	4,536	4,127	4,352	7,496	**54,620**
1972	4,705	5,778	4,776	3,270	3,812	7,636	4,286	4,882	4,796	7,220	3,699	4,316	**59,176**
1973	6,380	5,759	4,330	3,507	5,846	3,981	6,196	3,715	5,829	5,418	6,546	6,735	**64,242**
1974	4,065	2,073	4,009	3,436	4,946	3,413	5,435	4,839	5,053	4,180	3,206	4,735	**49,390**
1975	6,381	4,604	3,073	3,709	3,424	2,523	2,230	3,240	2,782	2,473	1,669	2,076	**38,184**
1976	1,815	1,416	2,496	2,894	2,369	1,600	3,511	900	1,549	1,085	1,185	1,649	**22,469**
1977	2,188	1,836	2,319	1,517	1,146	469	1,625	1,765	1,375	1,126	2,396	1,704	**19,466**
1978	1,591	1,651	2,546	2,390	2,446	1,651	2,196	1,966	2,058	1,708	1,766	2,414	**24,383**
1979	2,242	2,116	1,694	1,102	1,895	852	2,078	1,017	2,084	1,767	1,351	2,195	**20,393**
1980	2,001	654	1,515	2,108	1,135	1,378	1,563	1,588	1,534	2,169	1,104	1,032	**17,781**
1981	454	879	1,633	1,349	1,020	1,596	641	1,359	1,366	435	272	180	**11,1[illegible]**
1982	217	1,532	1,200	1,242	579	84	706	600	430	534	1,192	225	**8,541**
1983	830	227	1,097	461	907	746	933	1,244	1,237	1,533	681	525	**10,421**
1984	1,578	3,201	1,166	1,261	908	1,076	1,247	2,392	1,003	1,737	656	1,165	**17,390**
1985	1,509	810	931	413	745	602	1,327	294	1,020	1,291	971	1,098	**11,011**
1986	776	928	758	1,167	1,199	2,287	3,273	2,377	1,632	954	1,425	854	**17,630**

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Total Kerosine Imports
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.7	0.3	3.5	**0.5**
1972	0.0	0.8	0.0	0.0	0.0	0.0	1.3	0.9	2.8	1.5	3.9	6.0	**1.4**
1973	0.2	0.1	0.4	0.0	0.2	0.3	0.0	7.2	5.2	0.0	8.2	4.0	**2.2**
1974	5.9	13.0	7.5	5.3	0.0	4.3	1.3	4.9	0.7	2.7	7.3	5.1	**4.8**
1975	9.6	8.4	3.5	0.0	1.4	0.0	0.0	2.6	0.5	3.2	4.7	1.8	**3.0**
1976	0.3	12.7	8.5	8.4	2.0	7.9	3.1	5.7	8.4	15.7	10.9	20.4	**8.7**
1977	36.4	53.3	25.9	8.1	13.9	14.6	17.6	28.3	18.5	4.2	0.0	8.4	**19.1**
1978	12.1	27.6	15.6	4.6	10.7	2.6	7.0	1.8	25.9	10.6	10.8	4.9	**11.2**
1979	13.3	18.1	9.3	0.0	0.0	9.8	11.8	0.0	1.6	14.9	8.4	21.6	**9.1**
1980	15.3	22.6	16.7	9.6	7.4	4.5	7.0	0.0	0.0	4.5	0.7	32.7	**10.1**
1981	14.1	1.7	7.5	1.7	0.0	0.0	0.0	10.8	8.9	6.3	18.8	9.5	**6.6**
1982	22.9	7.8	1.6	16.7	5.8	4.8	4.8	7.9	8.1	24.2	33.7	15.4	**12.8**
1983	1.1	1.4	2.6	18.7	12.0	0.2	17.4	8.0	10.0	11.5	24.1	18.7	**10.5**
1984	17.2	19.3	1.4	0.2	1.3	9.3	8.6	8.0	6.9	23.7	29.9	20.4	**12.2**
1985	10.3	12.1	3.9	0.2	1.7	4.6	0.6	8.7	0.0	10.9	16.3	22.7	**7.7**
1986	28.7	1.3	10.9	0.2	1.8	0.0	7.4	25.6	13.5	14.4	19.0	29.6	**12.9**

Total Kerosine Imports
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	1	0	1	0	0	0	0	0	48	23	9	107	**189**
1972	1	24	0	1	1	0	41	28	83	45	116	186	**526**
1973	6	4	12	0	6	8	0	224	156	0	245	124	**785**
1974	182	365	232	158	0	130	41	153	21	85	218	159	**1,744**
1975	299	234	107	0	42	0	0	80	15	98	141	57	**1,073**
1976	8	368	264	251	61	237	97	178	253	487	328	631	**3,163**
1977	1,128	1,493	803	242	432	437	546	877	556	130	0	261	**6,905**
1978	375	774	483	137	332	79	218	55	776	328	323	151	**4,031**
1979	411	507	287	0	0	294	366	0	49	463	252	669	**3,298**
1980	473	656	519	287	228	136	216	0	0	138	22	1,015	**3,690**
1981	437	48	232	50	0	0	0	336	268	196	563	293	**2,423**
1982	710	218	49	502	179	145	148	245	242	751	1,011	477	**4,677**
1983	33	40	81	560	372	7	539	249	301	358	722	580	**3,842**
1984	532	560	43	5	39	279	267	247	208	734	896	633	**4,443**
1985	318	340	121	5	53	139	19	269	1	339	490	703	**2,797**
1986	891	37	337	5	57	1	230	794	466	446	569	919	**4,752**

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Total Distillate Fuel Oil Imports
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	209.2	185.7	180.2	107.9	92.7	117.0	107.3	91.6	98.8	118.7	169.9	354.4	**152.8**
1972	197.0	204.5	257.1	188.7	131.8	96.1	97.4	92.3	98.8	203.2	227.3	382.2	**181.4**
1973	364.2	731.2	602.3	240.2	267.8	222.0	318.4	287.6	313.3	450.9	492.3	439.2	**394.1**
1974	463.8	306.3	286.9	220.4	267.9	219.6	220.6	124.8	152.4	237.5	454.3	514.8	**289.1**
1975	334.0	301.9	255.2	109.9	136.3	69.1	103.8	92.1	129.5	104.3	96.5	138.1	**155.9**
1976	163.3	217.5	153.5	95.8	96.5	150.6	126.4	130.9	148.8	143.8	134.6	195.8	**146.5**
1977	347.2	664.3	547.1	153.0	98.6	134.7	190.5	161.4	168.7	149.8	188.3	227.1	**252.6**
1978	195.8	212.2	192.7	99.7	125.3	146.4	149.4	143.3	163.0	178.1	223.0	253.7	**173.6**
1979	225.9	195.6	175.9	150.4	185.5	179.6	224.5	217.6	125.5	211.4	234.7	229.3	**196.3**
1980	178.8	236.8	193.3	154.0	125.6	107.9	117.4	76.8	100.9	114.6	133.1	166.4	**142.1**
1981	273.4	324.6	147.3	116.1	178.8	224.9	178.7	174.2	123.1	118.6	124.5	95.0	**173.8**
1982	97.3	132.1	48.4	59.3	74.0	101.8	124.9	79.5	60.9	90.6	145.1	108.7	**93.6**
1983	68.2	58.5	42.4	73.2	146.7	178.7	266.6	301.5	258.9	260.2	203.0	220.5	**173.2**
1984	298.6	454.0	115.1	220.3	252.8	256.4	198.6	259.2	290.7	420.5	315.5	190.3	**272.7**
1985	271.5	143.0	155.9	253.3	197.1	151.9	95.3	81.5	222.5	261.5	280.4	286.7	**200.1**
1986	324.9	168.8	217.3	147.2	148.9	168.6	312.6	370.1	261.7	243.0	254.1	338.7	**246.3**

Total Distillate Fuel Oil Imports
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	6,484	5,200	5,585	3,237	2,874	3,509	3,327	2,841	2,963	3,679	5,098	10,986	**55,783**
1972	6,106	5,930	7,971	5,662	4,086	2,883	3,018	2,862	2,963	6,299	6,820	11,849	**66,449**
1973	11,289	20,474	18,672	7,207	8,301	6,660	9,870	8,915	9,399	13,978	14,769	13,615	**143,149**
1974	14,377	8,577	8,893	6,612	8,305	6,589	6,838	3,869	4,571	7,361	13,629	15,958	**105,579**
1975	10,355	8,453	7,911	3,297	4,225	2,072	3,219	2,854	3,885	3,232	2,894	4,281	**56,678**
1976	5,061	6,308	4,758	2,875	2,993	4,517	3,917	4,059	4,465	4,458	4,039	6,070	**53,520**
1977	10,763	18,601	16,960	4,591	3,057	4,042	5,907	5,003	5,061	4,645	5,648	7,040	**91,318**
1978	6,070	5,942	5,973	2,992	3,884	4,392	4,631	4,441	4,889	5,520	6,689	7,865	**63,288**
1979	7,002	5,477	5,453	4,512	5,750	5,387	6,960	6,745	3,765	6,552	7,042	7,109	**71,754**
1980	5,544	6,866	5,992	4,619	3,894	3,236	3,640	2,382	3,028	3,554	3,994	5,159	**51,908**
1981	8,475	9,090	4,567	3,483	5,542	6,746	5,539	5,400	3,872	3,678	3,734	2,944	**63,070**
1982	3,015	3,699	1,501	1,780	2,293	3,054	3,872	2,466	1,828	2,808	4,352	3,370	**34,038**
1983	2,115	1,638	1,314	2,197	4,547	5,362	8,265	9,346	7,766	8,066	6,090	6,836	**63,542**
1984	9,257	13,167	3,568	6,608	7,836	7,691	6,156	8,034	8,720	13,037	9,465	5,900	**99,439**
1985	8,418	4,004	4,834	7,600	6,110	4,558	2,954	2,526	6,675	8,107	8,413	8,889	**73,088**
1986	10,071	4,727	6,736	4,417	4,615	5,057	9,692	11,474	7,850	7,534	7,622	10,501	**90,296**

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Total Residual Fuel Oil Imports
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	1,780.4	1,772.7	1,858.0	1,574.3	1,504.3	1,451.3	1,459.1	1,282.0	1,451.5	1,373.6	1,570.0	1,924.9	1,583.5
1972	1,892.2	1,922.8	1,926.4	1,675.5	1,573.2	1,648.5	1,594.1	1,653.0	1,624.5	1,654.9	1,769.2	1,967.7	1,741.8
1973	2,019.1	2,146.8	2,195.5	1,705.3	1,668.0	1,760.8	1,597.4	1,913.3	1,849.0	1,597.1	1,978.8	1,825.6	1,854.7
1974	1,733.1	1,904.0	1,713.5	1,592.8	1,362.3	1,499.6	1,473.9	1,519.9	1,421.5	1,465.4	1,752.7	1,630.2	1,589.1
1975	1,657.2	1,402.5	1,292.7	1,053.9	1,160.2	902.4	1,124.6	1,020.7	1,310.7	1,251.4	1,225.4	1,283.1	1,223.7
1976	1,455.1	1,773.7	1,342.3	1,257.6	1,133.9	1,228.6	1,455.1	1,307.1	1,451.7	1,269.5	1,474.5	1,827.7	1,414.7
1977	1,614.5	1,906.1	1,447.9	1,139.9	1,144.5	1,180.6	1,270.9	1,440.8	1,457.9	1,217.7	1,093.7	1,347.8	1,362.7
1978	1,380.2	1,581.8	1,709.8	1,574.6	1,231.1	1,031.4	1,295.0	1,275.0	1,318.1	1,120.5	1,352.5	1,409.5	1,356.6
1979	1,370.8	1,300.0	1,641.7	1,133.9	1,050.7	879.9	1,064.5	1,022.8	979.3	1,041.7	1,046.1	1,277.7	1,150.8
1980	1,338.8	1,122.0	976.3	775.2	811.9	749.3	787.4	874.5	905.8	875.3	1,024.3	1,025.4	938.9
1981	1,015.4	954.0	699.2	583.8	741.2	540.4	829.9	819.1	841.2	785.6	880.2	915.9	800.5
1982	831.1	956.3	912.3	788.2	741.7	651.5	656.5	550.4	872.2	782.8	836.3	747.0	777.2
1983	690.6	646.9	686.2	753.4	737.8	677.2	684.3	739.4	706.1	638.5	780.0	648.9	699.1
1984	1,059.0	1,151.4	635.6	650.6	564.9	684.6	597.2	572.4	605.9	460.7	585.0	627.5	682.9
1985	567.7	579.6	477.4	382.9	393.8	400.3	437.2	423.9	617.5	541.5	627.5	681.3	510.9
1986	622.0	604.3	626.4	545.4	674.6	712.1	673.4	793.4	641.4	634.5	574.2	912.6	667.8

Total Residual Fuel Oil Imports
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	55,193	49,635	57,598	47,229	46,634	43,540	45,231	39,741	43,545	42,581	47,100	59,673	577,700
1972	58,658	55,761	59,718	50,265	48,770	49,455	49,416	51,244	48,736	51,303	53,075	61,000	637,401
1973	62,591	60,111	68,062	51,160	51,707	52,824	49,518	59,313	55,471	49,509	59,365	56,594	676,225
1974	53,727	53,313	53,118	47,785	42,232	44,989	45,694	47,117	42,644	45,426	52,580	50,535	579,157
1975	51,374	39,269	40,074	31,618	35,965	27,071	34,863	31,641	39,322	38,792	36,762	39,777	446,528
1976	45,109	51,438	41,610	37,728	35,152	36,859	45,108	40,519	43,552	39,356	44,234	56,660	517,325
1977	50,050	55,892	44,884	34,196	35,480	35,417	39,399	44,666	43,738	37,749	32,811	41,783	496,065
1978	42,785	44,290	53,005	47,237	38,163	30,941	40,145	39,525	39,544	34,737	40,575	43,693	494,640
1979	42,494	36,400	50,892	34,018	32,571	26,398	33,000	31,708	29,278	32,292	31,383	39,610	420,144
1980	41,504	32,537	30,266	23,257	25,169	22,479	24,410	27,110	27,173	27,135	30,730	31,787	343,557
1981	31,476	26,712	21,674	17,513	22,978	16,211	25,726	25,391	25,236	24,353	26,406	28,393	292,069
1982	25,763	26,776	28,281	23,647	22,994	19,546	20,353	17,062	26,166	24,267	25,089	23,157	283,101
1983	21,409	18,114	21,273	22,602	22,872	20,317	21,213	22,922	21,182	19,793	23,401	20,115	255,213
1984	32,830	33,392	19,703	19,518	17,512	20,538	18,513	17,745	18,178	14,282	17,550	19,451	249,212
1985	17,600	16,230	14,800	11,488	12,209	12,009	13,552	13,140	18,525	16,785	18,825	21,120	186,283
1986	19,283	16,919	19,417	16,361	20,912	21,363	20,875	24,596	19,242	19,670	17,225	28,290	244,153

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Total Liquified Petroleum Gases & Ethane Imports
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	98.3	85.7	56.0	54.6	50.6	52.1	47.7	45.5	56.4	95.3	95.1	107.1	70.4
1972	139.7	121.4	114.7	59.3	59.9	53.7	51.5	57.4	67.3	106.3	109.4	121.8	88.5
1973	203.7	189.9	147.0	89.9	113.3	75.8	86.5	129.5	98.7	148.7	170.7	127.2	131.7
1974	205.8	171.1	119.9	113.0	117.2	119.8	85.1	82.8	76.5	109.1	117.3	163.5	123.4
1975	178.6	115.6	95.5	101.8	38.0	92.5	98.1	81.7	120.7	139.0	130.0	147.6	111.6
1976	155.6	142.8	125.4	85.0	89.5	114.2	88.5	108.2	106.9	172.3	177.2	189.5	129.6
1977	196.9	221.3	191.5	137.0	135.6	168.9	125.5	167.4	111.1	122.6	150.7	212.1	161.7
1978	170.5	171.1	113.2	80.2	94.4	98.8	112.2	81.3	94.0	104.1	112.3	242.9	122.9
1979	240.5	238.5	238.3	149.4	241.9	162.0	230.7	225.8	184.4	180.9	253.7	258.1	217.0
1980	263.7	251.9	214.2	186.3	180.6	184.0	171.8	157.6	213.4	249.1	231.1	289.5	216.1
1981	306.5	327.3	259.9	213.6	189.4	205.9	212.6	194.9	199.3	287.1	280.3	255.4	244.4
1982	313.6	290.5	223.0	187.7	186.1	192.5	227.2	125.2	247.1	194.3	266.7	258.3	226.0
1983	239.7	304.5	166.3	123.5	166.6	172.2	191.5	159.8	178.1	160.3	179.9	247.3	190.8
1984	269.4	236.9	240.9	155.4	210.8	157.9	131.6	153.7	127.7	206.7	211.8	237.1	195.0
1985	255.1	236.8	223.2	156.0	137.8	180.9	130.8	152.9	132.1	208.5	187.5	238.9	186.7
1986	280.4	208.4	201.7	134.0	196.3	253.2	302.6	270.8	281.7	233.5	309.8	227.4	241.7

Total Liquified Petroleum Gases & Ethane Imports
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	3,046	2,399	1,735	1,639	1,570	1,562	1,479	1,409	1,691	2,953	2,852	3,320	25,655
1972	4,331	3,520	3,556	1,778	1,856	1,610	1,598	1,780	2,019	3,294	3,283	3,776	32,401
1973	6,315	5,317	4,558	2,697	3,511	2,273	2,683	4,014	2,961	4,610	5,120	3,943	48,002
1974	6,381	4,790	3,716	3,389	3,633	3,594	2,637	2,567	2,296	3,381	3,518	5,069	44,971
1975	5,538	3,237	2,962	3,053	1,179	2,776	3,042	2,533	3,622	4,308	3,900	4,577	40,727
1976	4,824	4,140	3,886	2,551	2,773	3,425	2,744	3,353	3,208	5,342	5,315	5,875	47,436
1977	6,105	6,197	5,938	4,111	4,203	5,066	3,889	5,189	3,332	3,801	4,522	6,574	58,927
1978	5,286	4,791	3,509	2,406	2,926	2,964	3,477	2,520	2,821	3,226	3,370	7,531	44,827
1979	7,455	6,677	7,386	4,482	7,498	4,860	7,153	7,000	5,533	5,607	7,612	8,000	79,263
1980	8,174	7,304	6,640	5,588	5,600	5,521	5,326	4,886	6,402	7,722	6,933	8,973	79,069
1981	9,500	9,164	8,058	6,409	5,872	6,176	6,591	6,041	5,979	8,900	8,409	7,916	89,015
1982	9,722	8,135	6,913	5,631	5,770	5,774	7,042	3,880	7,413	6,024	8,001	8,006	82,311
1983	7,432	8,527	5,156	3,706	5,166	5,167	5,935	4,955	5,344	4,969	5,398	7,665	69,420
1984	8,350	6,871	7,467	4,662	6,536	4,738	4,080	4,765	3,832	6,407	6,355	7,349	71,412
1985	7,908	6,629	6,919	4,680	4,273	5,427	4,054	4,740	3,963	6,464	5,626	7,406	68,089
1986	8,691	5,835	6,254	4,019	6,085	7,596	9,380	8,396	8,451	7,239	9,294	7,050	88,290

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

U.S. Imports from OPEC Nations
Crude Oil (Including SPR)
Thousands of barrels

	1977	1978	1979	1980	1981
Algeria	198,468	231,253	222,042	166,980	95,165
Ecuador	20,229	13,910	11,010	6,129	13,967
Gabon	12,632	13,841	15,328	9,062	12,633
Indonesia	184,984	194,620	138,528	114,990	116,126
Iran	193,415	202,357	108,269	3,086	0
Iraq	26,894	22,673	32,052	10,328	0
Kuwait	15,434	1,718	1,898	9,712	0
Libya	256,084	232,897	234,173	200,406	115,572
Nigeria	412,498	332,035	390,116	307,840	222,981
Qatar	24,281	23,224	11,450	7,920	2,665
Saudi Arabia	501,072	416,910	491,514	457,671	406,059
United Arab Emirates	121,640	140,653	102,709	63,052	27,950
Venezuela	91,331	66,125	106,794	56,950	53,580
Total OPEC	2,059,862	1,892,216	1,865,883	1,414,126	1,066,708
% Total U.S. crude imports (incl. SPR*)	85.3	81.6	78.4	73.4	66.5

	1982	1983	1984	1985	1986
Algeria	32,714	64,274	71,074	30,524	28,423
Ecuador	11,788	20,594	17,066	20,334	23,408
Gabon	14,429	21,415	20,838	18,797	8,959
Indonesia	82,315	115,156	111,404	106,654	108,376
Iran	12,854	17,575	3,706	9,919	7,078
Iraq	974	3,758	4,554	16,889	29,401
Kuwait	904	2,641	8,780	1,316	10,106
Libya	8,452	0	0	0	0
Nigeria	186,329	109,807	75,669	102,134	159,683
Qatar	2,600	0	1,497	0	4,365
Saudi Arabia	193,536	117,325	113,078	48,044	225,627
United Arab Emirates	29,509	6,641	32,966	12,760	13,806
Venezuela	56,434	59,854	92,728	111,627	151,937
Total OPEC	632,838	539,040	553,360	478,998	771,169
% Total U.S. crude imports (incl. SPR*)	49.7	44.3	44.1	41.0	50.6

* Strategic Petroleum Reserve

Data from Oil & Gas Journal Energy Database
Source: Energy Information Administration

U.S. Imports from OPEC Nations
Total Refined Products
Thousands of barrels

	1981	1982	1983	1984	1985	1986
Algeria	18,198	29,223	23,268	47,186	37,715	70,502
Ecuador	3,732	3,518	1,846	3,102	4,274	4,836
Gabon	0	117	0	306	291	463
Indonesia	17,520	8,323	8,332	14,241	7,803	7,866
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	210
Kuwait	0	982	2,351	4,356	6,341	14,758
Libya	969	908		213	1,629	0
Nigeria	3,437	1,286	408	3,294	4,693	1,047
Qatar	0	0	2	202	100	357
Saudi Arabia	6,135	7,927	5,766	5,811	13,141	24,364
United Arab Emirates	1,700	4,154	4,474	9,862	3,837	2,237
Venezuela	94,620	93,881	94,182	107,840	109,139	137,532
Total OPEC	146,311	150,319	140,629	196,413	188,963	264,172
% Total U.S. product imports	25.1	25.3	22.4	26.7	27.7	35.4

Data from Oil & Gas Journal Energy Database
Source: Energy Information Administration

U.S. Crude Oil Imports
Including Strategic Petroleum Reserve
By Country of Origin
Thousands of barrels

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Algeria *	198,468	231,253	222,042	166,980	95,165	32,714	64,274	71,074	30,524	28,423
Angola	6,150	2,290	14,088	13,389	16,528	15,248	25,763	31,172	37,889	37,076
Australia	NA	NA	NA	NA	NA	NA	0	9,177	7,557	10,973
Canada	101,778	90,490	99,081	73,002	59,904	78,041	100,142	124,687	170,800	208,163
China	0	0	4,874	0	0	2,824	2,100	5,615	13,027	24,754
Colombia	0	0	0	0	0	0	0	0	0	20,715
Congo	2,440	5,454	909	2,658	1,276	456	6,616	12,226	5,962	7,188
Ecuador *	20,229	13,910	11,010	6,129	13,967	11,788	20,594	17,066	20,334	23,408
Gabon *	12,632	13,841	15,328	9,062	12,633	14,429	21,415	20,838	18,797	8,959
Indonesia *	184,984	194,620	138,528	114,990	116,126	82,315	115,156	111,404	106,654	108,376
Iran *	193,415	202,357	108,269	3,086	0	12,854	17,575	3,706	9,919	7,078
Iraq *	26,894	22,673	32,052	10,328	0	974	3,758	4,554	16,889	29,401
Libya *	256,984	232,897	234,173	200,406	115,572	8,452	NA	0	0	0
Malaysia	20,257	13,677	18,954	22,213	12,143	6,574	930	0	301	3,883
Mexico	64,711	115,426	158,908	185,541	171,363	235,298	279,703	241,054	261,019	226,533
Nigeria *	412,498	332,035	390,116	307,840	222,981	186,329	109,807	75,669	102,134	159,683
Norway	17,628	37,815	27,523	52,727	41,542	37,299	23,836	40,927	11,311	19,403
Oman	27,140	22,240	13,466	8,693	8,702	8,183	12,281	3,755	655	2,897
Peru	0	6,807	14,746	14,728	10,813	7,725	3,062	224	4,371	3,372
Saudi Arabia *	501,072	416,910	491,514	457,671	406,059	193,536	117,325	113,078	48,044	225,627
Trinidad & Tobago	48,841	51,974	44,950	42,011	37,186	33,541	30,207	31,939	35,595	34,060
United Arab Emirates *	121,640	140,653	102,709	63,052	27,950	29,509	6,641	32,966	12,760	13,806
United Kingdom	35,583	61,555	71,923	63,459	134,766	161,061	133,142	138,246	101,552	115,659
Venezuela *	91,331	66,125	106,794	56,950	53,590	56,434	59,854	92,728	111,627	151,937
Zaire	0	263	1,379	4,690	5,977	6,914	8,158	11,460	12,569	9,490
Other	69,652	44,561	56,205	46,557	40,461	50,716	52,886	60,384	28,007	44,114
Total U.S. Imports	2,414,327	2,319,826	2,379,541	1,926,162	1,604,704	1,273,214	1,215,225	1,253,949	1,168,297	1,524,978

* OPEC member

Data from Oil & Gas Journal Energy Database
Source: Energy Information Administration

U.S. Refined Product Imports
By Country of Origin
Thousands of barrels

	1981	1982	1983	1984	1985	1986
Algeria *	18,198	29,223	23,268	47,186	37,715	70,502
Angola	1,404	927	2,729	1,853	2,090	3,771
Australia	1,714	1,804	1,454	4,579	5,811	4,064
Bahamas	27,081	23,667	45,581	32,364	14,561	13,416
Brazil	3,417	10,269	14,304	22,032	22,251	18,254
Canada	103,301	97,973	99,567	105,837	110,250	86,250
China	6,631	11,921	10,205	11,255	8,461	573
Ecuador *	3,732	3,518	1,846	3,102	4,274	4,836
France	2,126	730	645	2,159	4,422	4,862
Indonesia *	17,520	8,323 *	8,332	14,241	7,803	7,866
Italy	0	0	0	0	0	27,659
Kuwait *	0	982	2,351	4,356	6,341	14,758
Mexico	19,348	14,675	21,959	32,773	36,783	28,457
Netherlands	10,896	12,727	22,838	22,630	21,210	19,651
Netherlands Antilles	71,974	63,806	68,916	68,812	14,720	9,273
Peru	1,516	5,842	8,254	6,487	3,932	7,333
Puerto Rico	22,647	12,150	14,498	15,210	10,240	7,817
Romania	2,526	2,195	10,755	16,868	18,245	19,393
Saudi Arabia *	6,135	7,927	5,766	5,811	13,141	24,364
Spain	465	1,166	634	3,938	10,454	19,417
Trinidad & Tobago	11,363	7,415	4,912	2,581	5,534	11,477
United Arab Emirates *	1,700	4,154	4,474	9,862	3,837	2,237
United Kingdom	2,091	5,264	6,450	8,928	11,512	12,182
Venezuela *	94,620	93,881	94,182	107,840	109,139	137,532
Virgin Islands	119,365	115,399	102,969	107,645	90,206	88,894
Other	186,217	51,206	51,630	77,638	108,278	101,766
Total U.S. Imports	735,987	593,144	628,519	735,987	681,210	746,604

* OPEC member

Data from Oil & Gas Journal Energy Database
Source: Energy Information Administration

Crude Oil and Natural Gas Liquids Imports
Thousands of barrels per day

	Canada	France	Italy	Japan	Netherlands	United Kingdom	United States	West Germany	Other OECD	Total OECD
1981	521.5	1,929.8	1,841.2	3,992.6	784.5	746.7	5,051.2	1,613.5	3,507.5	19,988.5
1982	339.3	1,639.7	1,734.2	3,733.4	755.0	684.3	4,187.1	1,470.8	3,247.9	17,791.6
1983	250.0	1,448.3	1,552.2	3,588.6	814.2	632.5	4,015.2	1,324.7	3,093.8	16,719.4
1984	244.8	1,485.5	1,527.7	3,689.4	901.9	652.2	4,182.8	1,353.6	3,083.1	17,121.1
1985	282.7	1,517.5	1,481.6	3,474.1	801.9	726.0	3,989.3	1,302.1	3,000.0	16,525.2
1986	335.8	1,444.7	1,663.5	3,358.5	947.7	826.7	4,959.4	1,350.2	3,430.5	18,337.0

Total Refined Products Imports
Thousands of barrels per day

	Canada	France	Italy	Japan	Netherlands	United Kingdom	United States	West Germany	Other OECD	Total OECD
1981	56.6	302.8	341.4	594.5	702.2	200.7	1,075.4	801.2	1,396.5	5,471.4
1982	46.9	416.3	375.9	658.9	802.0	276.4	1,098.5	851.9	1,520.6	6,047.4
1983	56.3	465.4	341.3	758.3	811.3	216.9	1,211.3	968.2	1,532.6	6,361.9
1984	101.0	469.2	352.8	828.9	712.8	508.5	1,442.6	961.1	1,396.5	6,773.7
1985	97.5	389.1	396.2	872.6	805.8	296.0	1,269.2	1,055.3	1,406.6	6,588.3
1986	112.9	485.2	352.0	1,029.2	883.0	251.4	1,389.4	1,196.9	1,482.5	7,182.5

Note: Data are converted from IEA figures in thousands of tonnes. U.S. figures differ from those reported elsewhere in this publication due to data conversion, difference in source and timing of data reporting.

Data from Oil & Gas Journal Energy Database
Source: International Energy Agency

Crude Oil and Refined Products Imports
Total OECD
Thousands of barrels per day

	Crude Oil & NGL	Total Refined Products	Total Gasoline	Gas Oil/ Diesel Oil	Heavy (Residual) Fuel Oil	Other Refined Products
1981						
1st Qtr	21,496.4	5,344.5	565.3	1,127.5	1,652.1	1,999.6
2nd Qtr	19,581.4	4,941.2	616.5	969.6	1,460.0	1,895.0
3rd Qtr	18,960.5	5,724.7	663.0	1,278.9	1,806.5	1,976.3
4th Qtr	19,915.9	5,875.5	579.3	1,375.2	1,855.7	2,065.4
1982						
1st Qtr	18,490.0	5,999.9	558.5	1,305.0	1,984.5	2,152.0
2nd Qtr	17,214.0	5,777.8	701.9	1,147.9	1,750.9	2,177.2
3rd Qtr	17,637.0	5,963.4	726.8	1,237.5	1,766.1	2,233.0
4th Qtr	17,825.6	6,448.3	730.3	1,462.5	1,912.5	2,343.1
1983						
1st Qtr	15,746.8	6,241.6	703.8	1,484.9	1,751.6	2,301.2
2nd Qtr	15,863.2	6,423.1	851.6	1,458.0	1,770.8	2,342.7
3rd Qtr	17,444.2	6,202.1	807.4	1,440.7	1,681.2	2,272.8
4th Qtr	17,829.5	6,580.8	809.7	1,657.4	1,709.6	2,404.1
1984						
1st Qtr	17,639.8	6,565.9	811.7	1,562.5	1,786.3	2,405.5
2nd Qtr	17,402.5	6,665.8	898.3	1,471.8	1,843.9	2,451.7
3rd Qtr	16,603.1	6,699.5	880.2	1,593.9	1,823.0	2,402.3
4th Qtr	16,838.9	7,163.7	849.7	1,686.9	2,045.6	2,581.5
1985						
1st Qtr	16,601.4	6,495.8	853.6	1,512.9	1,812.7	2,316.6
2nd Qtr	15,666.4	6,227.4	1,055.3	1,498.7	1,388.9	2,284.5
3rd Qtr	16,182.4	6,687.9	997.9	1,819.4	1,518.6	2,352.0
4th Qtr	17,650.5	6,942.1	972.4	1,876.9	1,600.4	2,492.3
1986						
1st Qtr	17,411.1	6,691.6	881.5	1,950.0	1,407.7	2,452.5
2nd Qtr	17,812.9	7,367.7	1,104.7	2,110.0	1,651.9	2,501.1
3rd Qtr	19,839.5	7,569.1	1,176.1	1,919.4	1,804.5	2,669.0
4th Qtr	18,284.6	7,101.7	1,030.4	1,653.9	1,721.7	2,695.7

Data from Oil & Gas Journal Energy Database
Source: International Energy Agency

Total U.S. Crude Oil Exports
Thousands of barrels per day

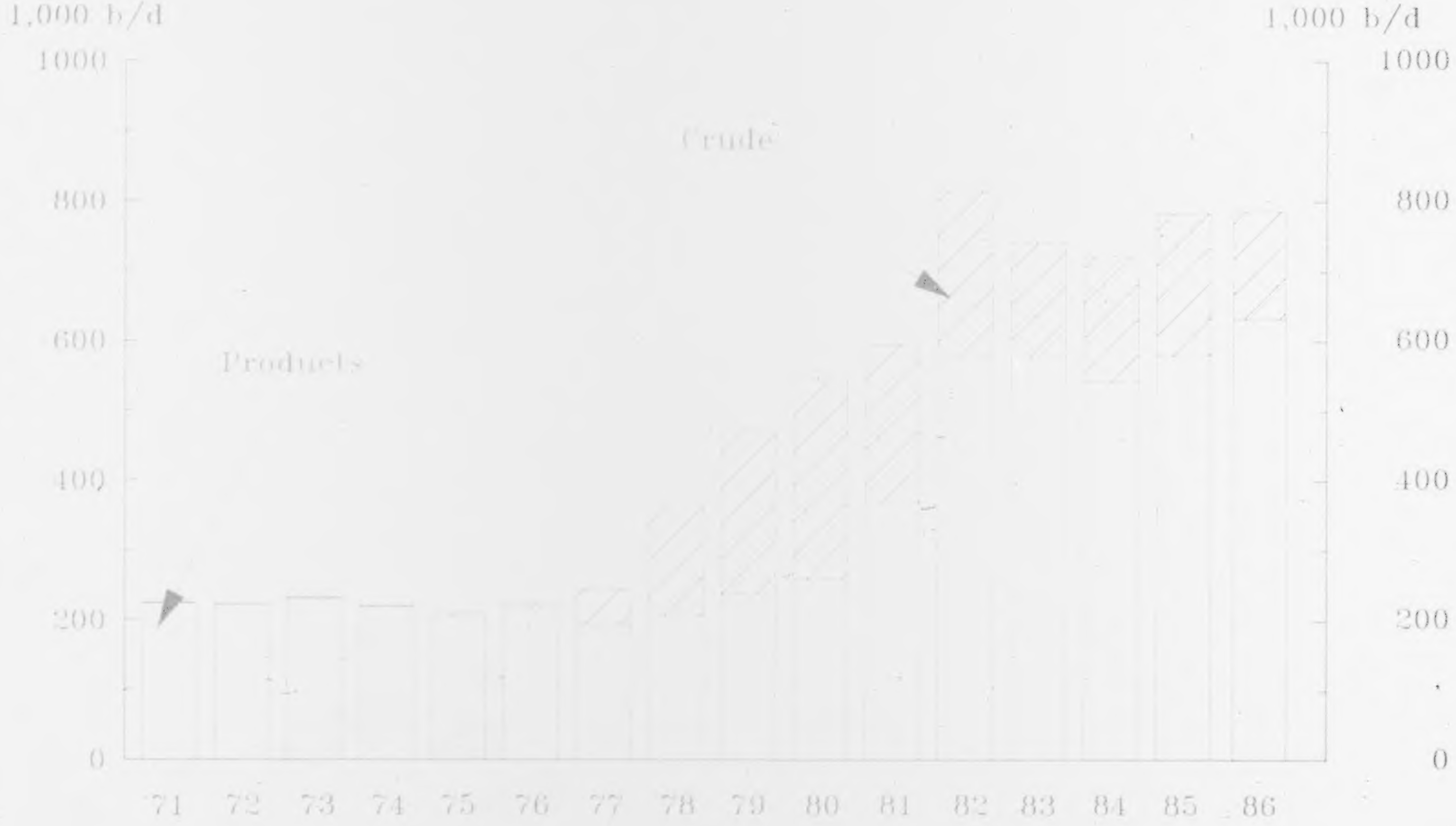
	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	0.0	0.1	0.0	10.4	0.3	0.0	0.0	0.0	4.8	1.2	0.0	0.0	1.4
1972	0.0	0.0	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
1973	0.0	0.0	0.0	0.0	4.1	0.0	7.5	0.0	5.3	0.0	0.0	5.7	1.9
1974	17.2	10.0	0.0	0.5	6.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	3.0
1975	27.0	33.6	11.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
1976	0.0	0.0	1.5	0.0	0.0	0.0	0.0	12.3	0.0	18.2	30.0	33.9	8.0
1977	13.3	59.0	32.1	16.8	89.0	9.7	53.1	36.9	90.6	85.3	45.2	68.7	50.0
1978	98.3	8.1	59.8	91.6	123.7	195.0	137.9	181.8	251.2	271.5	217.8	250.5	157.3
1979	176.9	288.4	369.6	259.7	171.4	234.6	244.5	244.9	174.7	178.6	264.2	215.3	235.2
1980	321.8	331.5	329.6	192.3	325.7	365.3	237.6	77.8	321.6	309.2	289.0	342.6	287.0
1981	338.6	198.0	210.3	197.7	312.2	123.3	257.3	203.9	193.8	225.7	277.9	188.9	227.3
1982	238.2	304.3	321.0	174.5	261.6	94.0	229.2	303.8	184.1	270.5	262.0	192.6	236.3
1983	116.9	262.1	173.5	87.7	280.3	143.5	145.0	172.0	177.2	139.9	185.6	94.7	164.9
1984	152.9	184.7	235.6	171.6	218.8	222.2	107.8	189.9	161.5	141.0	202.0	185.1	181.1
1985	144.5	220.8	189.0	235.6	249.9	225.5	153.9	241.3	188.2	123.2	286.4	196.9	204.6
1986	158.6	161.5	212.2	94.3	98.4	240.2	65.2	233.0	161.0	150.7	114.7	158.6	154.0

Total U.S. Crude Oil Exports
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	0	2	1	313	8	0	0	0	143	36	0	0	503
1972	0	0	0	187	0	0	0	0	0	0	0	0	187
1973	0	0	0	0	128	0	232	0	160	0	0	177	697
1974	534	281	0	15	200	44	0	0	0	0	0	0	1,074
1975	836	942	349	19	0	0	0	0	0	0	0	0	2,146
1976	0	0	45	0	1	0	0	380	0	563	900	1,052	2,941
1977	412	1,651	995	505	2,760	292	1,646	1,145	2,719	2,645	1,355	2,130	18,255
1978	3,048	226	1,855	2,749	3,834	5,851	4,276	5,636	7,536	8,418	6,533	7,766	57,728
1979	5,484	8,076	11,458	7,790	5,314	7,038	7,579	7,592	5,241	5,537	7,925	6,673	85,707
1980	9,975	9,614	10,218	5,770	10,097	10,960	7,367	2,412	9,647	9,586	8,669	10,620	104,935
1981	10,496	5,543	6,519	5,931	9,679	3,698	7,976	6,320	5,813	6,996	8,338	5,857	83,166
1982	7,383	8,521	9,950	5,234	8,111	2,819	7,105	9,418	5,524	8,384	7,859	5,970	86,279
1983	3,625	7,338	5,379	2,630	8,688	4,306	4,494	5,333	5,315	4,336	5,567	2,937	59,948
1984	4,739	5,355	7,304	5,147	6,782	6,665	3,341	5,886	4,846	4,371	6,061	5,737	66,234
1985	4,478	6,181	5,858	7,069	7,747	6,766	4,772	7,479	5,645	3,820	8,593	6,105	74,513
1986	4,918	4,523	6,577	2,829	3,049	7,206	2,021	7,222	4,829	4,673	3,441	4,917	56,205

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

U.S. Crude and Products Exports



Source: EIA

Total U.S. Products Exports
(Including Unfinished)
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	198.0	240.4	250.8	270.4	225.1	239.8	176.9	215.5	189.8	188.6	269.0	214.2	**223.2**
1972	169.6	162.3	288.0	239.4	199.1	208.6	207.8	237.0	228.0	233.3	247.4	239.4	**221.6**
1973	210.6	261.0	224.2	275.6	233.3	215.4	233.3	218.2	237.7	222.0	202.6	222.1	**229.7**
1974	189.5	192.8	195.6	242.8	240.1	236.9	253.2	247.2	170.9	220.9	186.5	231.1	**217.3**
1975	201.1	214.4	201.8	189.8	202.4	224.4	185.7	202.9	205.3	187.0	165.9	261.6	**203.5**
1976	155.8	241.3	183.2	222.0	179.4	212.8	242.5	207.7	195.9	179.6	317.8	245.5	**215.3**
1977	178.7	175.4	174.7	206.5	199.2	215.2	200.5	192.8	203.4	169.8	190.0	205.6	**192.7**
1978	158.2	200.2	208.8	245.4	189.3	203.6	191.9	229.0	225.7	197.3	190.9	204.8	**203.8**
1979	215.5	197.5	241.2	233.8	257.5	233.2	241.5	221.4	239.0	246.5	245.5	256.2	**235.7**
1980	227.9	226.8	243.3	241.4	265.5	288.8	293.0	240.7	235.3	288.3	259.8	279.5	**257.5**
1981	219.3	371.2	375.8	372.1	282.8	297.1	314.1	440.0	325.5	512.2	422.8	466.6	**366.6**
1982	590.7	499.5	561.1	611.0	541.9	609.1	511.8	553.8	606.4	661.5	524.1	667.3	**578.2**
1983	856.4	603.3	627.3	721.4	568.1	630.5	426.4	491.2	507.2	436.1	493.7	544.1	**575.5**
1984	422.4	397.2	607.7	483.4	547.5	642.0	428.5	542.1	502.3	458.4	652.2	800.6	**540.4**
1985	647.3	636.2	504.5	527.9	455.5	466.5	521.3	507.5	617.8	567.0	750.0	728.4	**577.5**
1986	700.1	714.5	519.6	755.7	625.3	401.4	620.1	634.8	553.3	679.8	706.0	661.2	**631.0**

Total U.S. Products Exports
(Including Unfinished)
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	6,139	6,731	7,776	8,111	6,978	7,194	5,483	6,681	5,693	5,846	8,069	6,641	**81,342**
1972	5,257	4,706	8,927	7,181	6,173	6,257	6,441	7,346	6,840	7,231	7,422	7,421	**81,202**
1973	6,529	7,307	6,950	8,267	7,231	6,463	7,231	6,763	7,130	6,883	6,077	6,885	**83,716**
1974	5,874	5,399	6,064	7,285	7,443	7,108	7,849	7,664	5,126	6,847	5,594	7,164	**79,417**
1975	6,234	6,002	6,257	5,694	6,275	6,733	5,756	6,289	6,159	5,796	4,977	8,110	**74,282**
1976	4,829	6,997	5,680	6,660	5,561	6,383	7,517	6,440	5,877	5,568	9,534	7,612	**78,658**
1977	5,541	4,912	5,416	6,196	6,176	6,457	6,217	5,977	6,102	5,264	5,700	6,375	**70,333**
1978	4,905	5,605	6,473	7,361	5,867	6,107	5,949	7,099	6,771	6,116	5,727	6,349	**74,329**
1979	6,680	5,530	7,478	7,014	7,982	6,995	7,488	6,862	7,171	7,641	7,366	7,942	**86,149**
1980	7,066	6,576	7,542	7,242	8,232	8,665	9,083	7,462	7,058	8,937	7,795	8,663	**94,321**
1981	6,798	10,393	11,651	11,162	8,768	8,914	9,736	13,641	9,765	15,879	12,685	14,464	**133,856**
1982	18,311	13,986	17,393	18,330	16,798	18,274	15,867	17,167	18,193	20,506	15,723	20,687	**211,235**
1983	26,549	16,892	19,445	21,642	17,610	18,914	13,217	15,226	15,216	13,518	14,812	16,866	**209,907**
1984	13,093	11,519	18,840	14,503	16,974	19,259	13,285	16,805	15,069	14,211	19,565	24,820	**197,943**
1985	20,066	17,813	15,640	15,837	14,121	13,996	16,159	15,733	18,535	17,577	22,500	22,579	**210,556**
1986	21,702	20,006	16,107	22,671	19,383	12,041	19,224	19,680	16,599	21,074	21,181	20,498	**230,166**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines. Energy Information Administration

Total Motor Gasoline Exports
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	0.7	0.9	0.6	4.7	1.4	0.8	0.7	0.7	1.3	0.5	0.5	0.7	**1.1**
1972	1.5	0.5	0.6	0.9	0.4	0.3	0.9	0.5	1.0	5.7	0.8	0.6	**1.2**
1973	1.0	5.1	0.7	4.3	4.9	0.9	2.3	0.3	0.9	8.1	15.3	4.7	**4.0**
1974	4.1	0.6	7.3	1.4	0.3	0.4	0.7	5.5	0.5	0.5	0.4	6.3	**2.3**
1975	0.5	9.5	0.8	1.3	0.5	0.7	1.3	0.4	0.2	1.0	0.9	7.9	**2.1**
1976	0.2	6.2	6.4	7.5	1.1	0.5	1.3	6.7	0.4	0.1	0.5	6.6	**3.1**
1977	8.4	1.9	0.3	1.1	1.9	1.0	0.7	1.1	1.0	1.4	1.6	0.8	**1.8**
1978	1.1	0.8	1.4	0.8	1.6	0.8	1.7	1.3	2.0	2.0	0.7	1.2	**1.3**
1979	0.6	0.6	0.5	0.7	0.4	0.2	0.3	0.7	0.2	0.5	0.5	0.1	**0.4**
1980	0.6	0.4	0.2	0.5	1.0	0.7	3.2	1.0	6.7	1.0	0.4	0.6	**1.3**
1981	0.4	0.7	0.5	0.3	0.7	0.6	0.4	2.8	1.7	2.8	0.9	10.7	**1.9**
1982	18.1	7.9	44.1	33.0	23.1	14.4	24.5	16.0	21.7	14.6	11.4	6.7	**19.6**
1983	0.5	0.2	23.4	1.3	1.4	21.6	18.3	12.8	13.7	1.6	2.2	25.4	**10.2**
1984	0.8	1.7	9.2	0.3	0.2	17.1	9.1	1.4	1.6	1.0	11.0	15.9	**5.8**
1985	1.8	1.8	3.1	10.6	8.1	7.1	17.8	4.3	5.7	18.7	16.9	17.6	**9.5**
1986	5.8	11.2	21.4	23.0	8.9	18.1	46.9	42.5	40.3	61.2	95.8	24.3	**33.3**

Total Motor Gasoline Exports
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	22	26	19	141	43	24	21	23	38	14	16	23	**410**
1972	45	14	20	28	13	10	27	17	30	178	23	19	**424**
1973	32	142	22	130	151	28	70	8	27	251	459	146	**1,466**
1974	126	18	225	41	10	11	21	172	15	17	13	196	**865**
1975	17	266	26	38	14	22	39	13	5	32	27	245	**744**
1976	6	179	199	225	35	14	41	209	12	2	15	206	**1,143**
1977	259	53	10	32	58	29	22	33	31	43	49	24	**643**
1978	35	22	44	23	49	25	53	39	60	62	20	38	**470**
1979	18	16	15	20	11	5	9	21	6	14	16	4	**155**
1980	18	12	6	15	30	20	98	31	201	30	13	19	**493**
1981	12	19	14	9	23	19	12	87	52	88	27	333	**695**
1982	562	222	1,367	990	717	431	758	495	651	452	343	208	**7,196**
1983	14	6	726	38	44	647	568	398	411	51	66	786	**3,755**
1984	25	50	285	9	6	514	281	44	48	31	329	492	**2,114**
1985	55	51	95	318	251	212	551	134	172	581	508	545	**3,473**
1986	179	314	662	691	277	542	1,454	1,319	1,210	1,897	2,874	752	**12,171**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Total Jet Naphtha Exports
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	3.6	3.1	4.0	7.8	8.7	4.0	2.9	3.7	3.6	0.5	3.3	3.1	**3.6**
1972	3.2	0.6	3.4	0.5	4.7	5.1	4.1	0.5	0.5	0.5	0.6	6.0	**2.5**
1973	5.8	6.6	5.5	1.8	0.7	0.4	0.1	0.0	0.0	0.0	0.4	0.2	**1.8**
1974	0.1	0.3	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.2	1.0	**0.2**
1975	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**
1976	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**
1977	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**
1978	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**
1979	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**
1980	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**
1981	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	0.0	**0.7**
1982	0.0	0.0	0.0	0.7	0.0	1.3	0.0	0.0	7.4	0.0	0.0	0.0	**0.8**
1983	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.6**
1984	0.0	2.2	0.0	1.0	0.0	2.7	0.0	0.8	0.0	7.5	0.0	15.8	**2.5**
1985	0.8	0.0	0.3	0.0	0.0	0.0	0.0	1.6	2.5	2.6	5.9	3.2	**1.4**
1986	0.1	0.9	0.9	4.7	0.0	0.3	0.1	0.6	0.3	0.0	0.0	9.6	**1.5**

Total Jet Naphtha Exports
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	112	86	125	233	114	121	91	116	101	15	99	97	**1,317**
1972	99	18	104	15	145	152	127	15	16	16	17	187	**911**
1973	180	184	169	54	22	11	3	0	0	1	11	5	**640**
1974	4	7	5	4	4	5	3	5	3	4	5	31	**80**
1975	0	0	0	0	0	0	0	0	0	0	0	0	**0**
1976	0	0	0	0	0	0	0	0	0	0	0	0	**0**
1977	0	0	0	0	0	0	0	0	0	0	0	0	**0**
1978	0	0	0	0	0	0	0	0	0	0	0	1	**1**
1979	0	0	0	1	0	0	0	0	0	0	0	0	**1**
1980	0	4	0	0	0	0	0	0	0	0	0	0	**4**
1981	0	0	0	0	0	0	1	0	0	0	234	0	**235**
1982	0	0	0	22	0	40	0	0	222	0	0	1	**285**
1983	0	0	1	200	0	0	0	0	0	0	0	0	**201**
1984	0	63	0	31	0	81	0	26	0	233	1	489	**924**
1985	25	0	10	0	0	0	0	51	75	82	178	100	**521**
1986	3	25	27	140	1	8	3	20	8	0	0	297	**532**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration.

Total Jet Kerosine Exports
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	0.0	3.2	0.7	1.3	0.7	0.0	0.0	0.0	1.5	0.0	0.0	0.0	**0.6**
1972	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	**0.1**
1973	1.1	0.8	0.9	5.7	3.6	4.3	3.4	1.0	1.9	3.2	3.1	1.5	**2.5**
1974	2.0	1.9	2.4	2.1	0.7	3.1	5.1	1.9	1.2	5.0	2.2	1.5	**2.4**
1975	1.9	2.2	1.4	1.3	2.2	1.3	2.2	1.7	1.5	1.4	1.4	1.6	**1.7**
1976	2.9	4.0	1.7	1.6	1.5	1.3	1.8	1.8	1.9	2.0	3.0	1.9	**2.1**
1977	1.5	1.9	1.8	3.9	2.1	1.4	0.6	0.6	1.7	1.5	1.2	1.6	**1.7**
1978	1.4	1.6	1.6	0.7	1.6	1.5	1.6	0.5	1.4	1.7	1.7	1.6	**1.4**
1979	0.6	0.7	0.7	0.7	0.6	0.5	0.5	0.7	0.5	0.2	0.7	1.1	**0.6**
1980	0.7	1.9	1.6	2.5	2.0	1.2	1.7	1.3	0.8	0.7	0.6	0.6	**1.3**
1981	0.9	0.8	0.3	0.6	0.5	0.4	0.6	0.7	0.7	0.5	0.8	7.2	**1.2**
1982	8.2	8.8	2.6	1.5	0.9	1.3	1.0	1.0	1.4	1.1	9.0	22.3	**4.9**
1983	8.8	8.0	0.9	0.6	1.3	0.7	1.2	6.2	9.0	0.8	12.4	14.8	**5.4**
1984	10.3	2.3	0.7	4.9	0.7	6.4	9.9	1.7	0.9	5.1	11.0	23.8	**6.5**
1985	2.5	22.3	5.9	5.0	4.7	3.4	3.4	21.3	4.4	24.9	28.3	18.0	**12.0**
1986	38.3	15.3	10.7	12.4	13.8	6.1	9.7	4.5	14.0	25.1	22.3	20.2	**16.0**

Total Jet Kerosine Exports
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	0	89	21	40	23	0	0	0	46	0	0	0	**219**
1972	0	10	0	0	0	0	0	0	0	0	0	36	**46**
1973	34	21	29	172	112	128	105	32	58	100	92	45	**928**
1974	62	53	74	63	22	93	157	60	37	155	67	46	**889**
1975	59	62	43	39	68	39	69	52	45	44	41	49	**610**
1976	89	115	52	48	45	39	56	55	56	63	89	59	**766**
1977	47	54	57	117	66	43	18	19	52	47	37	49	**606**
1978	42	44	50	20	51	46	50	16	42	52	50	50	**513**
1979	18	19	21	21	20	15	16	23	15	6	21	34	**229**
1980	21	55	49	76	62	35	52	40	24	23	18	19	**474**
1981	28	21	10	18	16	12	19	22	20	14	23	222	**425**
1982	255	245	80	44	27	38	32	32	41	35	269	692	**1,790**
1983	272	223	27	17	40	21	37	193	270	24	373	458	**1,955**
1984	318	68	21	148	22	191	306	52	27	158	329	738	**2,378**
1985	79	624	182	149	147	102	106	660	133	773	848	559	**4,362**
1986	1,188	429	333	371	428	184	300	138	420	778	668	626	**5,863**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Total Kerosine Exports
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	0.8	0.7	0.5	0.8	0.2	0.9	0.8	0.1	0.2	0.4	0.4	0.3	0.5
1972	0.3	0.1	0.3	0.1	0.1	0.4	0.6	0.3	0.1	0.2	0.3	0.2	0.3
1973	0.3	0.3	0.2	0.0	0.3	0.0	0.1	0.3	0.2	0.2	0.8	0.1	0.2
1974	0.1	0.0	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1
1975	0.1	0.1	0.0	0.4	0.0	0.2	0.1	0.1	0.0	0.4	0.1	0.2	0.1
1976	0.3	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.3	0.1	0.0	0.1	0.1
1977	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.1
1978	0.1	0.0	0.1	0.3	0.2	0.0	0.1	0.1	0.1	0.0	0.3	0.0	0.1
1979	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.0	0.2	0.0	0.1	0.1
1980	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.4	0.1	0.2	0.0	0.1
1981	0.0	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.0	0.1	0.0	0.0	0.1
1982	8.1	0.0	0.0	0.7	0.0	0.2	0.0	0.1	1.0	0.0	0.0	0.0	0.8
1983	0.0	0.0	0.1	0.0	0.1	1.9	0.1	0.1	0.2	7.0	0.1	0.1	0.8
1984	0.1	0.0	0.0	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.3	0.1
1985	0.2	0.1	0.4	0.1	0.2	0.2	0.1	0.1	0.1	0.2	1.3	0.3	0.3
1986	1.2	0.3	0.5	0.7	0.2	1.1	0.3	0.4	0.5	7.9	0.3	8.1	1.8

Total Kerosine Exports
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	24	20	15	24	5	27	25	4	7	11	11	8	181
1972	8	3	8	4	4	11	19	8	4	6	9	7	91
1973	9	8	7	0	8	0	4	8	7	7	24	3	85
1974	3	0	3	5	7	2	4	2	3	4	0	3	36
1975	3	2	0	12	1	6	2	4	0	12	4	6	52
1976	9	1	4	2	2	1	4	4	8	2	0	3	40
1977	1	2	4	0	2	1	3	2	0	4	4	0	23
1978	2	1	4	8	6	1	2	2	2	1	10	1	40
1979	2	3	2	1	2	0	2	3	1	6	0	3	25
1980	1	1	1	-2	1	0	4	0	11	3	7	1	32
1981	0	-2	2	7	4	5	3	3	0	8	1	0	31
1982	251	1	1	20	1	5	1	-2	30	1	1	1	315
1983	0	0	2	1	2	58	2	2	5	218	2	3	295
1984	2	1	1	3	5	6	2	4	6	3	5	8	46
1985	7	4	11	4	7	6	2	4	4	5	39	8	101
1986	36	7	14	21	7	34	9	11	16	246	9	251	661

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Total Distillate Fuel Oil Exports
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	8.8	8.6	12.2	5.6	8.0	13.7	10.2	8.4	3.1	4.4	5.4	2.5	**7.6**
1972	3.1	4.8	3.0	7.9	1.7	3.5	2.1	0.6	3.9	0.4	1.5	7.5	**3.3**
1973	10.7	2.4	2.3	6.6	1.7	8.4	3.4	8.5	25.4	23.3	3.2	9.9	**8.8**
1974	4.0	3.9	6.6	1.4	0.9	1.1	2.7	0.5	1.4	0.5	1.8	3.4	**2.3**
1975	0.1	1.8	0.0	1.7	0.2	1.6	0.4	1.6	0.0	0.0	0.3	1.2	**0.7**
1976	0.2	0.8	1.1	0.5	0.7	0.9	0.5	4.0	1.3	0.9	1.4	1.4	**1.1**
1977	1.1	0.9	1.0	2.5	0.4	0.3	0.0	0.4	0.6	5.5	2.8	1.6	**1.4**
1978	0.6	15.7	0.1	5.5	0.6	0.1	4.3	4.3	2.4	2.1	3.3	1.5	**3.4**
1979	0.6	7.0	1.4	2.2	0.2	15.4	6.7	0.2	1.5	0.9	0.0	0.0	**3.0**
1980	6.8	8.2	18.5	2.4	0.6	0.0	2.8	0.0	0.1	0.2	0.1	0.1	**3.3**
1981	0.2	16.6	0.2	3.4	0.1	0.5	2.3	0.2	1.1	5.4	6.4	26.5	**5.2**
1982	90.1	89.7	84.1	64.0	74.7	55.0	23.8	40.1	138.5	65.9	23.8	143.1	**74.4**
1983	172.9	104.7	59.1	46.9	50.3	40.1	54.7	42.7	36.6	54.9	53.8	53.8	**64.2**
1984	40.3	41.5	65.7	32.0	48.3	53.0	40.2	74.4	21.8	47.1	23.8	120.1	**50.7**
1985	40.6	64.3	43.7	26.9	30.9	29.8	111.6	99.6	120.6	67.3	92.2	80.9	**67.4**
1986	125.5	176.0	130.6	127.9	149.5	52.9	75.4	64.2	98.0	73.7	72.2	55.4	**100.1**

Total Distillate Fuel Oil Exports
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	272	241	378	169	248	410	316	259	94	135	161	78	**2,761**
1972	96	138	92	237	53	105	64	20	116	12	46	232	**1,211**
1973	332	67	72	197	54	253	105	264	761	721	97	308	**3,231**
1974	125	108	204	41	27	34	84	17	41	15	55	104	**855**
1975	2	50	1	51	7	48	11	49	1	1	10	36	**267**
1976	7	24	35	15	21	26	15	125	38	28	43	44	**421**
1977	35	24	30	75	11	10	0	13	17	170	83	51	**519**
1978	20	440	3	166	19	4	134	133	72	64	99	48	**1,202**
1979	18	196	42	67	5	463	208	5	45	28	1	1	**1,079**
1980	212	239	575	73	18	1	87	1	3	7	2	2	**1,220**
1981	5	465	6	101	3	15	72	7	32	167	193	820	**1,886**
1982	2,793	2,511	2,607	1,919	2,315	1,650	738	1,242	4,155	2,042	715	4,436	**27,123**
1983	5,361	2,931	1,832	1,408	1,559	1,203	1,695	1,324	1,097	1,701	1,614	1,669	**23,394**
1984	1,248	1,203	2,036	959	1,498	1,589	1,245	2,305	655	1,460	715	3,724	**18,637**
1985	1,260	1,800	1,354	808	957	894	3,460	3,087	3,619	2,085	2,765	2,508	**24,597**
1986	3,891	4,927	4,049	3,836	4,634	1,587	2,337	1,989	2,940	2,285	2,165	1,716	**36,356**

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Total Residual Fuel Oil Exports
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	15.9	48.4	49.1	58.3	37.6	36.3	32.0	44.4	28.9	29.3	40.0	16.0	**36.4**
1972	17.6	18.9	58.3	50.2	18.3	20.1	35.5	40.6	28.5	46.1	29.1	31.2	**32.9**
1973	31.3	31.7	23.9	39.1	35.2	6.1	33.7	27.5	19.8	18.9	4.8	7.8	**23.3**
1974	9.4	11.3	9.2	15.6	11.5	14.5	6.9	30.1	15.0	16.4	8.0	15.0	**13.6**
1975	14.9	18.9	9.5	5.9	7.9	20.6	17.4	12.0	19.2	5.3	12.5	31.8	**14.7**
1976	13.4	29.8	10.1	17.7	10.1	7.0	10.7	7.9	8.4	4.9	15.5	3.7	**11.6**
1977	2.4	8.0	3.4	3.3	5.1	2.0	18.2	9.4	2.8	2.2	6.9	12.0	**6.3**
1978	12.8	9.6	22.0	6.5	16.2	3.9	9.9	24.9	12.1	7.9	6.4	19.1	**12.6**
1979	6.3	9.7	14.2	1.7	7.7	7.9	4.5	14.5	2.4	17.7	4.7	14.3	**8.8**
1980	4.8	17.3	2.0	39.8	19.9	13.7	60.0	1.6	21.4	69.8	88.2	62.4	**33.4**
1981	65.2	125.0	144.6	151.0	25.2	75.5	82.1	69.0	126.0	201.7	202.6	157.0	**118.7**
1982	235.0	213.3	197.2	233.7	190.8	217.2	238.9	234.8	148.4	233.8	182.5	186.2	**209.3**
1983	294.4	191.0	169.1	310.4	189.8	218.5	90.2	164.7	134.4	152.6	166.6	141.1	**185.2**
1984	151.5	87.4	203.9	129.5	200.1	175.8	98.7	260.2	214.3	174.1	285.9	298.7	**190.0**
1985	311.7	294.7	215.5	167.0	185.5	117.6	82.8	105.5	188.0	183.8	275.3	249.8	**198.1**
1986	210.8	183.1	112.7	202.3	128.9	42.6	90.5	174.4	110.5	144.2	142.9	224.1	**147.2**

Total Residual Fuel Oil Exports
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	494	1,355	1,521	1,749	1,167	1,090	991	1,377	868	909	1,200	496	**13,217**
1972	547	548	1,806	1,507	567	603	1,099	1,259	856	1,428	873	967	**12,060**
1973	970	888	741	1,172	1,091	183	1,046	852	593	585	145	241	**8,507**
1974	292	317	286	469	357	435	215	932	451	508	241	466	**4,969**
1975	463	528	295	178	246	619	540	371	577	164	376	985	**5,342**
1976	416	865	312	532	313	210	332	245	253	153	465	114	**4,210**
1977	75	225	105	99	159	59	564	290	83	67	206	373	**2,305**
1978	396	270	683	195	501	117	307	773	363	244	192	593	**4,634**
1979	195	271	440	51	239	237	141	448	72	548	140	444	**3,226**
1980	149	503	63	1,195	616	410	1,861	50	643	2,165	2,645	1,933	**12,233**
1981	2,020	3,499	4,484	4,529	781	2,266	2,546	2,138	3,781	6,253	6,079	4,868	**43,244**
1982	7,285	5,972	6,113	7,012	5,915	6,516	7,406	7,280	4,453	7,249	5,475	5,771	**76,447**
1983	9,125	5,348	5,241	9,311	5,883	6,555	2,795	5,107	4,032	4,732	4,998	4,374	**67,501**
1984	4,695	2,536	6,320	3,885	6,202	5,275	3,060	8,065	6,430	5,398	8,576	9,261	**69,703**
1985	9,663	8,252	6,681	5,010	5,750	3,528	2,566	3,271	5,639	5,697	8,260	7,743	**72,060**
1986	6,534	5,128	3,494	6,068	3,997	1,279	2,804	5,406	3,314	4,471	4,288	6,946	**53,729**

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Total Liquified Petroleum Gases and Ethane Exports
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	26.0	26.8	26.2	26.7	21.2	23.6	24.8	24.3	24.8	26.5	27.5	30.3	25.7
1972	28.7	30.3	35.7	26.0	27.0	26.9	27.4	32.6	31.4	34.9	35.5	39.5	31.3
1973	28.8	40.7	35.8	26.6	25.1	23.5	25.4	26.5	25.5	24.5	22.8	23.3	27.4
1974	27.1	21.6	23.4	22.8	22.9	23.4	27.2	24.3	27.2	25.7	24.8	26.5	24.7
1975	29.8	30.3	31.9	29.0	25.3	22.2	23.0	23.9	23.6	24.8	21.8	26.5	26.0
1976	24.2	22.9	26.0	26.1	22.5	28.0	23.9	21.5	20.9	24.4	25.8	28.7	24.6
1977	28.5	18.8	18.6	19.9	14.1	11.9	19.7	15.9	14.3	16.3	16.6	18.3	17.7
1978	20.5	21.6	20.2	18.4	24.8	20.0	18.7	26.7	13.3	18.2	20.8	14.6	19.8
1979	11.9	15.9	30.8	12.9	10.7	11.3	9.8	12.2	9.3	13.5	17.6	21.9	14.8
1980	30.0	26.4	22.6	19.1	17.0	18.3	17.5	17.1	18.8	24.5	22.8	22.9	21.4
1981	21.2	20.7	20.1	25.6	19.1	23.7	17.4	149.5	20.5	75.8	58.5	49.8	41.8
1982	67.5	50.7	74.5	76.6	43.2	106.4	37.2	60.5	84.6	81.5	37.2	56.1	64.7
1983	118.2	75.6	127.0	116.2	84.4	58.6	54.5	29.2	86.3	31.8	32.7	66.3	73.4
1984	23.2	41.4	68.2	53.9	41.7	52.6	42.8	34.0	26.2	55.9	52.5	81.9	47.9
1985	70.0	71.5	51.8	78.3	40.1	50.7	67.8	80.0	29.2	47.0	88.3	74.7	62.5
1986	47.1	74.2	47.3	33.4	40.0	25.0	50.1	53.0	26.7	25.6	53.5	32.5	42.4

Total Liquified Petroleum Gases and Ethane Exports
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	805	751	813	800	658	707	770	754	745	823	826	938	9,390
1972	891	878	1,106	779	836	807	848	1,012	941	1,083	1,065	1,223	11,469
1973	892	1,139	1,109	797	777	705	788	820	766	758	683	721	9,955
1974	840	604	725	683	710	701	844	753	816	797	744	821	9,038
1975	925	847	989	870	784	667	713	741	708	768	654	822	9,488
1976	750	665	805	784	697	841	740	665	627	755	773	891	8,993
1977	885	526	578	598	437	357	612	493	429	504	497	567	6,483
1978	636	604	626	553	769	600	581	828	398	565	625	453	7,238
1979	370	446	954	388	331	338	304	378	279	419	527	680	5,414
1980	930	767	700	574	528	548	543	529	564	758	684	710	7,835
1981	656	580	622	768	591	711	540	4,633	616	2,349	1,754	1,544	15,364
1982	2,091	1,420	2,308	2,298	1,338	3,192	1,154	1,876	2,538	2,526	1,115	1,740	23,596
1983	3,663	2,117	3,936	3,487	2,616	1,759	1,691	905	2,589	987	980	2,056	26,786
1984	719	1,202	2,115	1,616	1,292	1,579	1,326	1,053	786	1,734	1,574	2,540	17,536
1985	2,169	2,003	1,605	2,350	1,242	1,521	2,103	2,480	876	1,457	2,649	2,317	22,772
1986	1,459	2,078	1,466	1,001	1,240	751	1,552	1,642	802	793	1,604	1,009	15,397

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Crude Oil and Natural Gas Liquids Exports
Thousands of barrels per day

	Australia	Canada	Denmark	France	Italy	Netherlands	Norway	United Kingdom	United States	West Germany	Other OECD	Total OECD
1981	13.5	257.5	4.8	0.0	11.1	1.1	380.6	1,057.2	71.2	0.0	52.3	**1,849.4**
1982	0.7	334.6	15.3	0.0	11.1	0.8	389.9	1,249.0	76.3	1.3	33.2	**2,112.2**
1983	2.3	377.5	22.9	0.0	5.2	5.8	508.2	1,413.3	64.6	0.1	7.6	**2,407.4**
1984	43.2	451.3	18.4	0.0	2.5	9.4	587.7	1,624.9	47.7	0.1	26.5	**2,811.6**
1985	87.7	579.1	21.8	2.1	16.5	39.7	644.3	1,681.4	61.1	0.0	26.2	**3,160.0**
1986	72.1	634.3	18.8	2.3	24.9	26.9	728.3	1,774.0	45.1	0.0	71.2	**3,397.8**

Refined Product Exports
Thousands of barrels per day

	Australia	Canada	Denmark	France	Italy	Netherlands	Norway	United Kingdom	United States	West Germany	Other OECD	Total OECD
1981	51.7	129.5	26.0	335.4	311.5	885.2	54.5	270.3	357.2	161.0	781.5	**3,363.9**
1982	94.7	94.2	23.5	260.2	305.1	1,009.8	55.0	277.9	652.1	175.6	831.6	**3,779.7**
1983	96.1	139.0	39.3	236.9	273.2	1,104.0	54.4	293.1	632.9	163.6	906.6	**3,939.2**
1984	84.7	142.2	48.0	229.9	225.7	1,131.1	55.3	275.3	621.0	153.6	969.2	**3,936.1**
1985	70.2	168.9	42.7	254.6	230.3	1,106.8	57.3	326.3	648.0	143.1	917.6	**3,965.8**
1986	71.8	150.8	53.5	246.4	327.4	1,201.1	51.2	332.6	732.9	107.3	1,138.3	**4,413.3**

Note: Data are converted from IEA figures in thousands of tonnes. U.S. data differs from figures reported elsewhere in this publication due to data conversion, difference in source and timing of data reporting.

Data from Oil & Gas Journal Energy Database
Source: International Energy Agency

Crude & Product Exports
Total OECD
Thousands of barrels per day

	Crude Oil and NGL	Total Refined Products	Total Gasoline	Gas Oil/ Diesel Oil	Heavy (Residual) Fuel Oil	Other Refined Products
1981						
1st Qtr	1,884.9	3,310.6	529.6	871.8	737.9	1,171.3
2nd Qtr	1,699.2	3,161.9	510.5	775.0	654.4	1,222.1
3rd Qtr	1,894.6	3,396.5	550.3	828.6	753.4	1,264.3
4th Qtr	1,918.9	3,586.5	493.0	919.9	861.5	1,312.1
1982						
1st Qtr	1,923.3	3,689.4	495.7	963.3	972.1	1,258.3
2nd Qtr	2,103.8	3,605.8	573.5	831.4	818.4	1,382.5
3rd Qtr	2,217.0	3,835.3	584.7	888.2	890.2	1,472.3
4th Qtr	2,204.7	3,988.3	571.8	934.9	974.8	1,506.8
1983						
1st Qtr	2,237.4	4,043.5	578.0	1,040.8	919.7	1,505.0
2nd Qtr	2,373.3	4,033.2	680.8	947.2	872.3	1,532.8
3rd Qtr	2,412.1	3,877.7	611.6	901.0	919.1	1,446.1
4th Qtr	2,606.7	3,802.2	554.7	896.8	927.0	1,423.6
1984						
1st Qtr	2,815.6	3,850.0	637.1	909.0	850.9	1,453.0
2nd Qtr	2,565.3	3,997.3	679.4	913.6	860.0	1,544.3
3rd Qtr	2,684.1	3,731.0	603.9	896.4	880.4	1,350.4
4th Qtr	3,177.5	4,166.1	558.0	872.3	1,176.8	1,559.0
1985						
1st Qtr	3,229.8	3,935.0	588.0	858.7	1,062.1	1,426.1
2nd Qtr	3,046.9	3,707.1	772.1	771.0	780.8	1,383.1
3rd Qtr	3,045.7	4,106.3	703.1	1,034.0	847.4	1,521.7
4th Qtr	3,317.7	4,114.7	681.9	969.8	952.3	1,510.7
1986						
1st Qtr	3,485.3	4,145.5	625.1	1,211.8	867.3	1,441.4
2nd Qtr	2,972.4	4,628.1	728.7	1,304.7	961.7	1,633.1
3rd Qtr	3,394.1	4,616.8	797.6	1,099.8	1,037.4	1,682.0
4th Qtr	3,739.5	4,262.8	796.6	883.6	956.7	1,625.9

Data from Oil & Gas Journal Energy Database.
Source: International Energy Agency

OPEC Crude Oil Exports
By Country
Thousands of barrels per day

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Algeria	526.1	546.3	674.7	768.1	867.1	883.0	974.3	687.6	996.8	993.2	895.0
Ecuador	1.5	1.0	1.8	0.0	0.8	1.2	0.6	0.7	68.8	195.1	164.1
Gabon	19.8	24.7	28.5	66.8	77.0	84.2	83.9	96.0	105.0	119.2	180.7
Indonesia	273.9	265.9	260.0	308.8	397.5	516.8	625.4	656.4	817.2	1,012.4	1,036.6
Iran	1,279.1	1,462.1	1,965.7	2,146.0	2,347.3	2,847.4	3,309.3	3,979.0	4,498.4	5,276.8	5,369.2
Iraq	1,199.5	1,252.9	1,319.5	1,172.1	1,429.2	1,445.4	1,495.8	1,618.9	1,436.1	1,925.8	1,849.0
Kuwait	1,989.7	2,035.3	2,181.8	2,202.2	2,307.0	2,441.7	2,579.9	2,775.2	2,925.0	2,641.6	2,203.2
Libya	856.4	1,212.7	1,499.6	1,717.3	2,582.4	3,069.5	3,312.1	2,747.4	2,214.2	2,174.5	1,490.3
Nigeria	118.7	270.1	383.9	298.8	135.7	542.2	1,050.8	1,486.4	1,756.1	1,978.1	2,179.4
Qatar	212.1	225.7	291.0	319.7	339.0	353.0	362.8	428.6	481.7	570.3	511.2
Saudi Arabia	1,603.9	1,858.6	2,276.6	2,429.6	2,643.4	2,794.7	3,216.9	4,186.8	5,444.1	7,014.6	7,922.4
United Arab Emirates	185.8	280.2	361.4	381.0	495.4	624.9	777.0	1,054.8	1,202.7	1,522.1	1,689.5
Venezuela	2,350.7	2,331.8	2,263.2	2,429.1	2,454.9	2,476.0	2,434.6	2,313.9	2,132.4	2,123.5	1,768.3
Total OPEC	10,617.2	11,768.3	13,507.7	14,239.5	16,076.7	18,080.0	20,223.4	22,031.7	24,078.5	27,547.2	27,258.9

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Algeria	877.5	944.4	1,034.5	1,002.8	960.4	715.5	521.8	228.9	260.4	181.6	175.3
Ecuador	145.8	167.6	138.2	122.7	122.6	110.2	105.5	90.1	126.3	147.1	168.9
Gabon	205.3	196.2	180.2	173.5	164.8	151.2	124.9	130.3	136.4	139.2	163.5
Indonesia	994.7	1,227.4	1,325.7	1,268.2	1,077.7	988.0	992.5	818.6	858.3	876.3	705.7
Iran	4,671.0	5,213.7	4,867.4	4,447.1	2,407.0	796.7	714.6	1,623.2	1,718.7	1,521.8	1,568.3
Iraq	2,058.8	2,241.1	2,167.4	2,384.4	3,275.3	2,459.0	746.1	811.4	725.4	856.0	1,085.4
Kuwait	1,803.4	1,790.9	1,624.8	1,761.2	2,083.1	1,296.5	813.8	368.8	544.4	658.0	475.9
Libya	1,431.1	1,846.6	1,943.0	1,854.8	1,966.0	1,693.0	1,062.5	974.0	937.4	929.6	894.6
Nigeria	1,713.3	2,013.2	2,030.2	1,827.1	2,210.1	1,960.2	1,228.4	1,002.8	935.2	1,094.1	1,232.8
Qatar	428.3	486.6	410.3	480.0	494.9	465.7	391.0	322.8	268.3	356.8	285.3
Saudi Arabia	6,601.1	8,031.8	8,608.4	7,706.0	8,817.7	9,223.2	9,017.9	5,639.4	3,978.7	3,186.9	2,251.3
United Arab Emirates	1,661.4	1,932.8	1,990.0	1,816.3	1,805.3	1,697.3	1,439.0	1,167.0	1,077.3	1,036.7	977.7
Venezuela	1,472.2	1,370.3	1,321.0	1,244.6	1,408.3	1,287.2	1,266.0	1,057.9	976.7	1,000.1	819.4
Total OPEC	24,063.9	27,462.6	27,641.1	26,088.7	26,793.2	22,843.7	18,424.0	14,235.2	12,543.5	11,984.2	10,804.1

Data from Oil & Gas Journal Energy Database
Source OPEC Secretariat

OPEC Refined Product Exports
By Country
Thousands of barrels per day

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Algeria	4.7	14.0	1.6	5.1	12.1	9.5	14.2	5.8	10.0	35.5	41.6
Ecuador	NA	NA	NA	NA	NA	NA	0.1	0.9	1.5	2.0	0.9
Gabon	NA	NA	NA	NA	NA	10.1	11.3	12.4	12.6	13.3	9.1
Indonesia	70.7	82.9	86.9	79.5	75.4	92.5	99.3	92.2	125.6	154.9	123.7
Iran	218.3	215.1	220.0	202.3	209.4	217.5	209.6	194.4	176.8	147.2	163.1
Iraq	0.6	0.7	0.7	0.7	0.0	4.9	3.1	3.5	0.4	7.5	21.3
Kuwait	211.5	223.7	238.7	219.8	215.0	190.1	251.0	234.2	210.5	205.7	192.5
Libya	NA	NA	NA	NA	NA	1.4	0.8	0.0	0.4	35.0	27.8
Nigeria	NA	1.7	4.7	2.1	1.2	2.5	4.6	8.5	2.5	15.0	3.7
Qatar	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Saudi Arabia	150.2	179.0	155.7	225.8	290.7	219.4	347.0	294.2	319.5	331.7	321.5
United Arab Emirates	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Venezuela	861.8	920.8	918.5	932.2	913.6	934.8	1,035.0	968.4	932.5	1,026.6	983.6
Total OPEC	1,517.8	1,637.9	1,626.8	1,667.5	1,717.4	1,682.7	1,973.0	1,814.5	1,792.3	1,974.4	1,888.8

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Algeria	62.1	40.8	30.5	77.9	69.2	148.1	201.8	404.3	291.6	434.4	385.3
Ecuador	0.3	0.9	0.9	18.1	20.2	24.2	17.3	15.3	11.0	17.6	13.3
Gabon	6.6	22.0	12.3	19.9	14.3	10.5	13.5	13.2	11.1	6.3	4.2
Indonesia	100.4	99.1	147.2	118.6	146.9	162.6	155.8	121.1	130.2	191.9	150.3
Iran	215.1	116.0	118.9	124.0	172.6	155.0	93.5	95.0	97.4	56.7	39.4
Iraq	37.5	39.3	35.7	33.1	34.1	35.0	53.9	50.0	61.3	61.0	70.0
Kuwait	140.5	336.9	313.3	327.1	423.6	343.4	280.8	370.4	414.3	394.9	511.8
Libya	47.2	53.0	91.2	99.2	84.6	72.5	62.1	78.0	78.7	76.8	90.9
Nigeria	5.3	11.3	13.9	3.8	24.0	74.6	43.4	10.9	16.3	20.0	27.9
Qatar	NA	NA	NA	NA	6.7	1.8	13.2	11.6	16.8	21.7	21.4
Saudi Arabia	330.7	390.0	341.4	357.5	375.6	406.8	481.0	537.6	495.4	496.8	514.8
United Arab Emirates	NA	NA	2.8	7.9	13.0	19.6	37.7	45.7	60.7	59.6	71.7
Venezuela	614.0	761.6	642.9	697.5	685.2	564.7	480.1	478.0	514.6	517.8	545.0
Total OPEC	1,559.7	1,870.9	1,751.0	1,893.5	2,070.0	2,018.8	1,934.1	2,231.1	2,199.4	2,355.5	2,446.0

Data from Oil & Gas Journal Energy Database
Source: OPEC Secretariat

Worldwide Trade Movements of Crude Oil and Products
Thousands of barrels per day

	1974	1975	1976	1977	1978	1979	1980
Imports							
United States	6,125	6,025	7,290	8,710	8,225	8,410	6,735
Western Europe	14,840	12,610	13,725	13,295	13,090	13,080	11,825
Japan	5,450	4,945	5,320	5,510	5,335	5,605	4,985
Rest of World	6,935	6,755	7,965	7,240	7,400	8,255	8,390
Total World	33,330	30,335	34,300	34,755	34,050	35,350	31,935
Exports							
United States	220	210	220	250	365	485	555
Canada	1,045	800	600	540	445	455	445
Latin America	3,490	3,175	3,310	3,115	3,400	3,645	3,885
Middle East	20,050	18,505	20,855	20,730	19,730	20,435	17,510
North Africa	2,625	2,405	3,070	3,295	3,370	3,425	2,820
West Africa	2,545	1,975	2,230	2,370	2,115	2,645	2,475
South East Asia	1,400	1,455	1,765	1,915	1,790	1,915	1,705
USSR, E. Europe & China	1,400	1,470	1,815	1,975	2,200	1,740	2,005
Rest of World	555	340	435	565	635	605	535
Total World	33,330	30,335	34,300	34,755	34,050	35,350	31,935

	1981	1982	1983	1984	1985	1986
Imports						
United States	5,950	5,040	4,990	5,380	5,065	6,045
Western Europe	10,245	9,350	8,665	8,595	8,365	8,860
Japan	4,460	4,155	4,145	4,305	4,045	4,140
Rest of World	8,000	7,020	6,555	6,470	6,645	7,220
Total World	28,655	25,565	24,355	24,750	24,120	26,265
Exports						
United States	605	815	740	720	780	765
Canada	455	485	545	655	685	675
Latin America	4,380	4,135	4,065	4,100	3,565	3,600
Middle East	14,605	11,660	10,355	9,845	9,340	10,880
North Africa	2,175	2,145	2,180	2,290	2,415	2,515
West Africa	1,730	1,500	1,425	1,670	1,765	1,980
South East Asia	1,660	1,480	1,400	1,600	1,555	1,550
USSR, E. Europe & China	2,195	2,245	2,655	2,865	2,920	3,020
Rest of World	850	1,100	[illegible]	1,005	1,095	1,280
Total World	28,655	25,565	24,355	24,750	24,120	26,265

Data from Oil & Gas Journal Energy Database
Source: British Petroleum

Demand and Consumption

Demand for petroleum products defied all previous forecasts when it turned down in 1978 and 1979. Demand had increased annually since the late 1940's. U.S. demand peaked in 1978 at 18.847 million b/d, and worldwide demand peaked in 1979 at 64.14 million b/d. Demand proceeded to fall sharply after reaching these levels.

Prior to this forecasters had almost unanimously predicted steady growth in demand for petroleum products. Even when demand first turned downward, many considered it a temporary anomaly. Part of the problem was the delay in the reporting of energy statistics. Although the energy data reporting system has improved, lags in reporting can still make it difficult for forecasters to work with the most current data.

U.S. demand for petroleum products dropped sharply over the 1978 to 1983 period, falling 19.2% to 15.231 million b/d. Substantially higher petroleum product prices stimulated a conservation effort that resulted in this decrease in demand. Because of the steady growth in demand over the period 1946-1978, most analysts overlooked the possibility of a demand response to higher oil prices. Economists would say that demand was considered to be price inelastic. The fallacy of this evaluation can be seen in the statistics in this chapter.

This phenomenon was not restricted to the U.S. Price increases of the magnitude that took place in the 1970's made conservation a necessity to reduce the increase in business and personal costs for energy.

The shift in demand for petroleum products was not the same for all products. For products such as residual fuel oil, where there is substantial competition from other fuels, the decline in demand was greater than for products like motor gasoline. Motor gasoline has few substitutes, so conservation had a less pronounced effect upon consumption.

Further indication of the responsiveness of demand to prices has been the increase in demand since 1983 as prices have fallen. This was particularly evident during 1986 when U.S. demand jumped 3.5% as prices for crude and products plummeted.

Those products which suffered the most from high prices and competition from other fuels saw an increase in market share during 1986 even when the prices of competing fuels were falling as well. Lower prices stimulated an 18% increase in residual fuel oil demand during 1986 even as prices for natural gas and coal also declined.

This chapter of the Energy Statistics Sourcebook provides the detailed key data required to analyze the trends in domestic and worldwide demand for petroleum products. It provides not only the historical data on total demand, but a breakdown by major product categories.

One way of overcoming the analytical problems associated with lags in reporting of demand data is to have available the key historical data. By studying past trends and relationships an analyst has a better understanding of the data and is in a better position to fill any gaps created by data reporting lags. This chapter includes all of the key data needed to analyze consumption trends.

Demand and Consumption

Demand for Products, By Major Product, Total U.S., Annual, 234
Petroleum Products Demand, By Sector, Total U.S., Annual, 237
Demand for All Products, Total U.S., Monthly, 239
Demand for All Products, By PAD District, Monthly, 240
Motor Gasoline Demand, Total U.S., Monthly, 241
Motor Gasoline Demand, By Type, Total U.S., Monthly, 243
Motor Gasoline Demand, By Sector, Total U.S., Annual, 244
Motor Gasoline Sales, By State, Annual, 245
Jet Naphtha Demand, Total U.S., Monthly, 246
Jet Kerosine Demand, Total U.S., Monthly, 247
Kerosine Demand, Total U.S., Monthly, 248
Kerosine Demand, By Sector, Total U.S., Annual, 249
Distillate Fuel Oil Demand, Total U.S., Monthly, 250
Distillate Fuel Oil Demand, By Sector, Total U.S., Annual, 251
Residual Fuel Oil Demand, Total U.S., Monthly, 252
Residual Fuel Oil Demand, By Sector, Total U.S., Annual, 253
Liquified Petroleum Gases & Ethane Demand, Total U.S., Monthly, 254
Liquified Petroleum Gases Demand, By Sector, Total U.S., Annual, 255
Worldwide Crude Oil Consumption, By Country & Region, Annual, 256
Consumption By Major Product Category, By Region, Annual, 258
Consumption of Refined Products, By OECD Country, Quarterly, 260
Consumption of Refined Products, By Sector, Total OECD, Annual, 262
Gasoline Consumption, By OECD Country, Quarterly, 263
Gas Oil/Diesel Oil Consumption, By OECD Country, Quarterly, 264
Heavy Fuel Oil Consumption, By OECD Country, Quarterly, 265
Non-Communist Crude Oil Supply & Demand Balance, Annual, 266

Total Demand for All Products
Total U.S.
Thousands of barrels per day

	Finished Motor Gasoline	Naphtha Jet Fuel*	Kerosine Jet Fuel	Kerosine	Distillate Fuel Oil	Residual Fuel Oil	Other Products+	All Products
1919	242.9	NA	NA	90.9	NA	NA	692.2	1,026.0
1920	297.7	NA	NA	90.4	NA	NA	857.0	1,245.0
1921	320.1	NA	NA	80.9	NA	NA	853.0	1,254.0
1922	377.5	NA	NA	95.5	NA	NA	982.1	1,455.0
1923	478.0	NA	NA	97.4	NA	NA	1,211.7	1,787.0
1924	537.1	NA	NA	100.3	NA	NA	1,240.6	1,878.0
1925	637.7	NA	NA	109.5	NA	NA	1,244.8	1,992.0
1926	734.6	NA	NA	104.5	NA	NA	1,299.9	2,139.0
1927	836.6	NA	NA	102.7	NA	NA	1,261.7	2,201.0
1928	925.9	NA	NA	99.0	NA	NA	1,325.1	2,350.0
1929	1,049.0	NA	NA	98.7	NA	NA	1,429.3	2,577.0
1930	1,089.3	NA	NA	95.2	NA	NA	1,354.5	2,539.0
1931	1,106.4	NA	NA	85.7	NA	NA	1,280.8	2,473.0
1932	1,032.2	NA	NA	90.8	177.9	664.1	317.1	2,282.0
1933	1,042.5	NA	NA	105.5	177.4	709.5	344.2	2,379.0
1934	1,124.2	NA	NA	121.2	205.0	727.5	342.1	2,520.0
1935	1,191.3	NA	NA	130.5	235.7	769.0	367.5	2,694.0
1936	1,315.9	NA	NA	140.5	280.8	841.2	406.7	2,985.0
1937	1,422.9	NA	NA	150.6	320.1	891.8	417.6	3,203.0
1938	1,432.9	NA	NA	154.4	321.8	799.5	405.4	3,114.0
1939	1,521.9	NA	NA	165.8	369.8	886.3	427.2	3,371.0
1940	1,610.6	NA	NA	187.9	439.5	929.4	457.6	3,625.0
1941	1,828.8	NA	NA	190.3	473.5	1,050.5	527.9	4,071.0
1942	1,614.0	NA	NA	191.1	508.7	1,111.5	546.7	3,972.0
1943	1,556.8	NA	NA	187.9	570.2	1,279.5	573.6	4,168.0
1944	1,728.1	NA	NA	196.2	571.9	1,399.0	670.8	4,566.0
1945	1,907.8	NA	NA	207.1	619.4	1,434.0	688.7	4,857.0
1946	2,014.8	NA	NA	244.1	665.5	1,315.2	672.5	4,912.0
1947	2,178.1	NA	NA	280.9	817.2	1,420.6	755.2	5,452.0
1948	2,380.5	NA	NA	306.6	832.2	1,367.6	888.1	5,775.0
1949	2,503.3	NA	NA	281.3	902.1	1,359.0	757.3	5,803.0
1950	2,724.1	NA	NA	322.9	1,081.9	1,517.2	860.9	6,507.0
1951	2,985.1	NA	NA	337.7	1,225.4	1,546.3	946.5	7,041.0
1952	3,122.9	55.0	NA	340.8	1,303.2	1,521.0	937.1	7,280.0
1953	3,303.5	94.5	NA	313.6	1,337.2	1,535.6	1,019.7	7,604.0
1954	3,368.5	128.6	NA	324.1	1,442.1	1,431.0	1,065.7	7,760.0
1955	3,643.3	166.3	NA	320.0	1,592.1	1,526.2	1,212.1	8,460.0

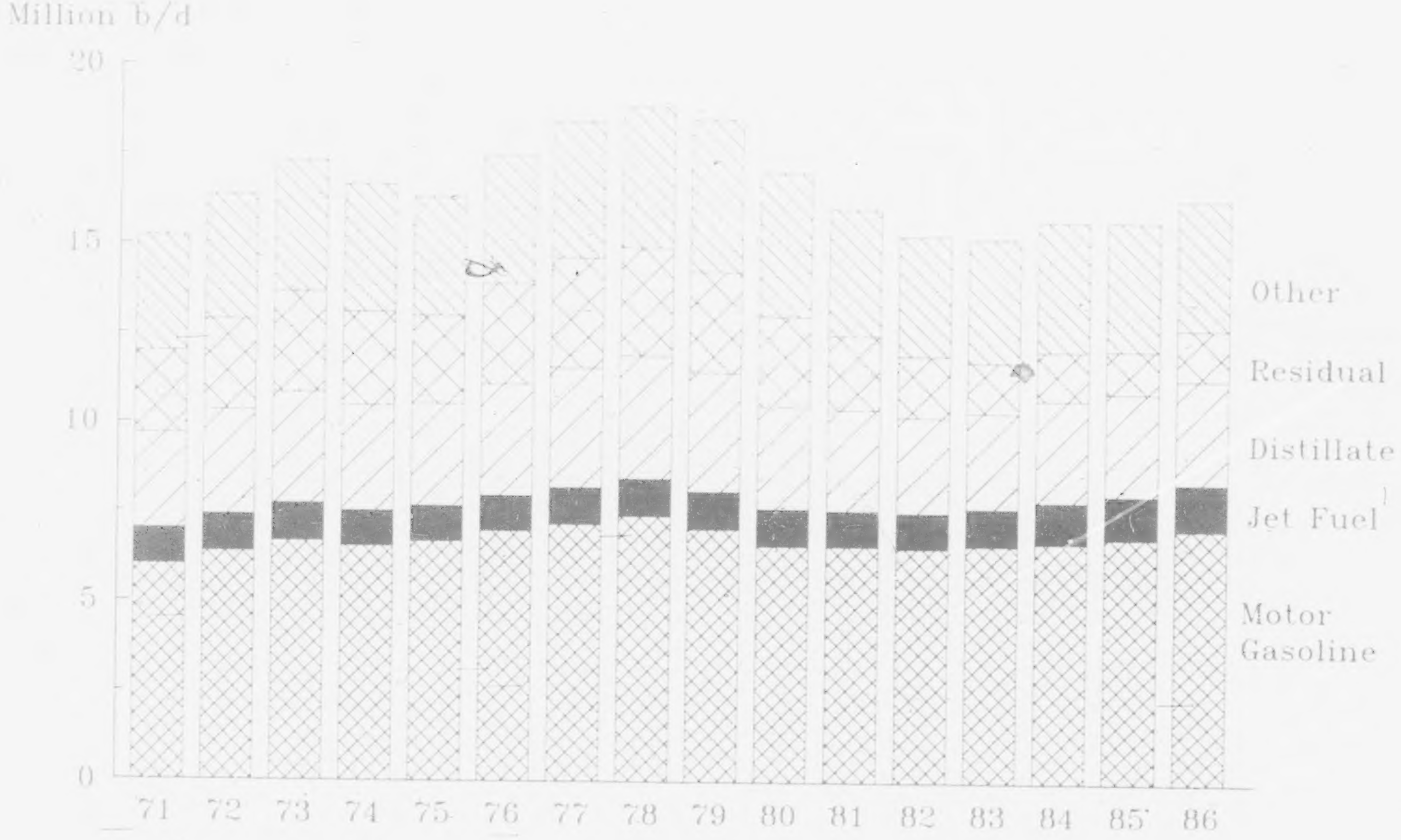
Total Demand for All Products
Total U.S.
Thousands of barrels per day

	Finished Motor Gasoline	Naphtha Jet Fuel*	Kerosine-Jet Fuel	Kerosine	Distillate Fuel Oil	Residual Fuel Oil	Other Products+	All Products
1956	3,751.6	197.1	NA	320.6	1,682.7	1,537.7	1,289.3	8,779.0
1957	3,816.3	199.9	NA	295.1	1,687.9	1,503.6	1,315.2	8,818.0
1958	3,934.0	258.0	NA	310.4	1,790.2	1,455.0	1,335.5	9,083.0
1959	4,069.3	285.6	NA	301.2	1,808.2	1,543.7	1,443.1	9,451.0
1960	4,130.3	280.9	NA	362.0	1,872.3	1,528.5	1,487.0	9,661.0
1961	4,200.5	286.1	NA	395.7	1,902.4	1,503.2	1,518.1	9,806.0
1962	4,341.6	307.9	NA	449.8	2,006.6	1,495.4	1,632.7	10,234.0
1963	4,471.5	315.7	NA	471.8	2,047.3	1,476.5	1,768.2	10,551.0
1964	4,402.6	324.0	NA	487.5	2,050.3	1,515.3	2,036.4	10,816.0
1965	4,592.6	268.0	334.0	267.4	2,125.5	1,608.3	2,107.3	11,303.0
1966	4,808.0	278.5	391.0	277.0	2,184.6	1,716.3	2,194.6	11,850.0
1967	4,958.3	305.6	518.0	274.2	2,241.5	1,786.0	2,193.4	12,277.0
1968	5,260.6	345.8	609.0	281.7	2,357.1	1,857.6	2,405.2	13,117.0
1969	5,526.0	297.0	694.0	275.0	2,466.5	1,977.9	2,900.7	14,137.0
1970	5,784.5	249.0	718.0	262.9	2,540.3	2,203.5	2,938.9	14,697.2
1971	6,014.4	260.0	751.0	249.1	2,661.1	2,296.0	2,980.8	15,212.5
1972	6,376.4	242.0	803.0	234.6	2,912.9	2,529.1	3,269.0	16,367.0
1973	6,674.4	217.0	842.0	216.2	3,092.4	2,822.4	3,443.3	17,307.7
1974	6,537.5	222.0	771.0	176.3	2,947.7	2,639.0	3,359.3	16,652.7
1975	6,674.6	209.0	791.0	158.9	2,850.9	2,461.8	3,175.8	16,322.0
1976	6,977.7	199.0	789.0	169.2	3,133.1	2,801.0	3,392.2	17,461.1
1977	7,176.8	208.0	831.0	175.2	3,351.6	3,071.0	3,617.7	18,431.4
1978	7,411.8	199.0	858.0	17[illegible].5	3,431.7	3,022.6	3,748.1	18,846.6
1979	7,034.5	200.0	876.0	187.9	3,314.3	2,826.2	4,077.2	18,516.0
1980	6,578.5	217.0	851.0	158.4	2,866.1	2,508.3	3,876.6	17,055.9
1981	6,587.5	198.0	809.0	126.9	2,828.7	2,087.8	3,419.8	16,057.7
1982	6,539.2	209.0	804.0	128.7	2,670.9	1,716.5	3,227.5	15,295.7
1983	6,622.2	207.0	839.0	127.0	2,690.2	1,420.8	3,325.0	15,231.1
1984	6,710.9	223.0	953.0	115.3	2,852.7	1,373.2	3,540.8	15,768.7
1985	6,831.1	213.7	1,004.6	113.9	2,868.0	1,202.3	3,492.7	15,726.4
1986	7,034.1	202.3	1,105.1	98.3	2,914.4	1,418.4	3,508.2	16,280.6

* Prior to 1965, may include some kerosine-type jet fuel
+ A balancing item. Includes products shown as Not Available

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

U.S. Domestic Demand



Source: EIA

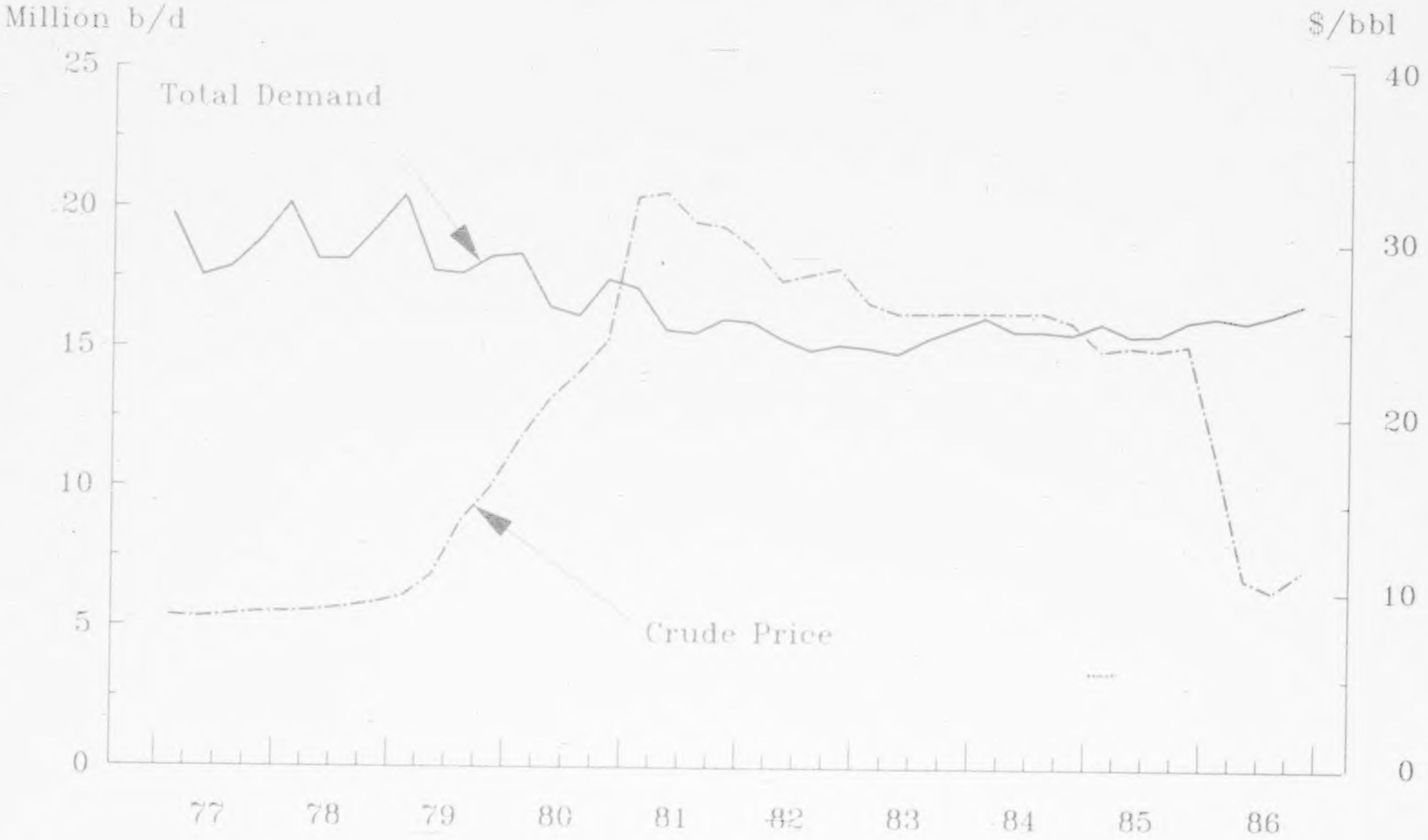
Total Petroleum Products Demand by Sector
Millions of barrels

	Residential	Commercial	Industrial	Transportation	Electric Utilities	Total
1960	417	210	991	1,879	88	3,586
1961	429	213	994	1,916	89	3,641
1962	450	219	1,037	2,000	89	3,796
1963	456	217	1,082	2,073	93	3,921
1964	442	215	1,144	2,133	101	4,034
1965	461	238	1,187	2,201	115	4,202
1966	461	246	1,246	2,316	141	4,411
1967	483	255	1,258	2,427	161	4,585
1968	509	260	1,314	2,629	189	4,902
1969	525	263	1,379	2,741	251	5,160
1970	528	269	1,394	2,835	339	5,364
1971	533	262	1,409	2,949	399	5,553
1972	558	267	1,538	3,131	497	5,990
1973	543	272	1,637	3,302	563	6,317
1974	495	248	1,571	3,225	539	6,078
1975	481	230	1,475	3,266	506	5,958
1976	522	255	1,630	3,428	556	6,391
1977	517	264	1,763	3,560	624	6,727
1978	503	254	1,783	3,702	638	6,879
1979	399	231	1,952	3,650	525	6,757
1980	333	222	1,772	3,494	421	6,242
1981	297	190	1,563	3,460	352	5,861
1982	279	175	1,482	3,396	251	5,583
1983	271	201	1,407	3,433	247	5,559
1984	286	206	1,500	3,558	206	5,756
1985	309	185	1,463	3,608	175	5,740

Note: May not add to totals due to independent rounding

Data from Oil & Gas Journal Energy Database
Source: Energy Information Administration

Total Demand and Crude Oil Price



Source: EIA

Total Demand for All Products
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	**Annual Average**
1971	16,466.2	16,680.9	15,723.9	14,928.6	13,676.9	14,632.4	14,175.7	14,236.7	14,493.8	14,503.9	15,953.9	17,191.9	**15,222.1**
1972	16,735.1	17,860.9	16,869.9	15,528.7	14,801.5	15,614.7	14,820.9	15,935.8	15,489.2	16,455.4	17,610.2	18,738.4	**16,371.7**
1973	18,712.7	19,094.1	17,216.2	15,920.5	16,625.8	16,481.3	16,372.4	17,498.8	16,656.3	17,202.2	18,492.0	17,538.4	**17,317.6**
1974	17,285.9	17,365.7	16,103.7	15,928.5	15,725.7	16,117.1	16,348.7	16,549.7	16,023.8	17,050.0	17,351.3	18,013.0	**16,655.3**
1975	18,003.9	17,084.4	16,315.4	16,048.3	15,155.3	15,610.0	15,739.9	15,806.3	15,767.8	16,376.6	15,777.2	18,185.0	**16,322.5**
1976	18,646.9	17,509.3	17,302.0	16,671.5	15,977.4	16,824.6	16,606.7	16,642.0	16,836.8	17,090.4	18,846.9	20,559.9	**17,459.5**
1977	20,504.3	20,481.8	18,123.7	17,579.7	16,972.3	18,043.3	17,567.9	18,011.9	17,714.4	17,824.1	18,437.3	20,051.7	**18,442.7**
1978	19,752.3	20,900.0	19,652.0	17,747.1	18,230.4	18,259.7	17,633.3	18,638.7	17,953.5	18,417.5	19,156.2	19,944.3	**18,857.1**
1979	20,585.6	21,288.0	19,321.7	17,434.0	17,800.6	17,785.6	17,143.9	18,148.8	17,399.8	18,175.8	18,355.1	18,921.8	**18,530.1**
1980	18,851.5	18,817.2	17,376.9	16,784.5	16,237.7	16,187.0	16,007.8	15,752.9	16,598.4	16,994.7	16,702.0	18,410.4	**17,060.1**
1981	18,429.7	16,988.9	15,906.8	15,349.7	15,353.0	16,094.6	15,682.4	15,262.7	15,654.6	15,821.7	15,592.7	16,596.2	**16,061.1**
1982	16,124.0	16,001.4	15,560.5	16,046.3	14,846.6	14,998.1	14,820.6	14,839.3	15,021.9	14,858.6	15,009.1	15,487.2	**15,301.1**
1983	14,722.3	14,791.9	15,540.5	14,692.1	14,504.7	15,288.8	15,018.8	15,480.1	15,505.9	14,962.3	15,499.8	16,725.9	**15,227.8**
1984	16,800.8	15,437.2	16,050.0	15,568.2	15,619.9	15,708.7	15,497.7	16,116.5	15,247.4	15,616.5	15,626.6	15,375.1	**15,722.0**
1985	16,109.2	16,121.3	15,372.6	15,471.7	15,503.6	15,482.9	15,433.7	16,060.1	15,099.0	15,943.5	15,502.8	16,611.3	**15,726.0**
1986	16,088.0	16,186.0	16,276.3	15,944.6	15,993.2	16,049.4	16,306.9	16,618.3	15,909.0	16,602.4	16,221.1	17,131.0	**16,277.2**

Total Demand for All Products
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	**Annual Total**
1971	510,452	467,065	487,442	447,857	423,985	438,972	439,448	441,336	434,815	449,622	478,616	532,950	**5,552,560**
1972	518,788	517,967	522,968	465,861	458,845	468,442	459,447	494,010	464,676	510,116	528,305	580,891	**5,990,316**
1973	580,092	534,636	533,703	477,616	515,400	494,440	507,544	542,464	499,689	533,269	554,761	543,689	**6,317,303**
1974	535,862	486,240	499,215	477,855	487,496	483,514	506,811	513,041	480,714	528,551	520,538	558,402	**6,078,239**
1975	558,121	478,362	505,776	481,449	469,813	468,301	487,936	489,995	473,035	507,675	473,317	563,735	**5,957,515**
1976	578,054	507,769	536,362	500,146	495,299	504,737	514,809	515,903	505,104	529,801	565,408	637,358	**6,390,750**
1977	635,634	573,491	561,836	527,390	526,142	541,300	544,605	558,368	531,432	552,547	553,120	621,603	**6,727,468**
1978	612,321	585,201	609,213	532,413	565,141	547,792	546,633	577,798	538,605	570,942	574,686	618,272	**6,879,017**
1979	638,153	596,063	598,971	523,021	551,819	533,569	531,462	562,612	521,994	563,450	550,652	586,576	**6,758,342**
1980	584,396	545,699	538,684	503,534	503,370	485,610	496,242	488,339	497,952	526,836	501,061	570,722	**6,242,445**
1981	571,321	475,689	493,111	460,490	475,943	482,838	486,154	473,143	469,637	490,471	467,780	514,481	**5,861,058**
1982	499,843	448,039	482,375	481,389	460,244	449,944	459,437	460,018	450,658	460,615	450,272	480,104	**5,582,938**
1983	456,390	414,173	481,756	440,764	449,646	458,664	465,584	479,884	465,176	463,830	464,995	518,504	**5,559,366**
1984	520,825	447,678	497,551	467,046	484,217	471,260	480,430	499,611	457,421	484,110	468,797	476,629	**5,755,575**
1985	499,385	451,396	476,552	464,151	480,611	464,487	478,444	497,862	452,970	494,249	465,083	514,951	**5,740,141**
1986	498,728	453,209	504,565	478,339	495,789	481,482	505,514	515,167	477,269	514,674	486,633	531,060	**5,942,429**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Total Demand for All Products
By Petroleum Administration for Defense Districts
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1981													
PAD 1	7,162.8	6,129.3	5,413.2	4,752.4	4,657.0	4,827.7	4,829.7	4,654.3	4,703.0	4,950.2	5,021.3	5,928.3	**5,252.4**
PAD 2	4,627.2	4,390.4	4,179.5	4,058.6	4,136.8	4,336.7	4,131.6	3,956.3	4,320.3	4,381.6	4,293.5	4,411.9	**4,268.7**
PAD 3	3,667.6	3,514.6	3,480.6	3,691.0	3,718.7	3,766.2	3,639.0	3,506.6	3,684.0	3,468.5	3,408.7	3,486.9	**3,586.0**
PAD 4	510.5	498.8	512.6	529.7	501.2	589.4	586.6	600.1	570.1	558.5	525.2	536.9	**543.3**
PAD 5	2,461.7	2,455.8	2,320.9	2,318.0	2,339.3	2,574.7	2,495.6	2,545.6	2,377.2	2,482.9	2,344.0	2,232.3	**2,410.7**
Total U.S.	18,429.7	16,988.9	15,906.8	15,349.7	15,353.0	16,094.6	15,682.4	15,262.7	15,654.6	15,821.7	15,592.7	16,596.2	**16,061.1**
1982													
PAD 1	6,102.1	5,783.1	5,324.2	5,233.0	4,375.8	4,510.8	4,452.7	4,435.5	4,628.2	4,518.9	4,763.1	5,235.9	**4,946.9**
PAD 2	4,109.6	4,120.1	3,999.5	4,289.7	4,080.0	4,075.3	4,074.7	3,949.7	4,162.3	4,224.5	4,153.6	4,145.4	**4,115.4**
PAD 3	3,145.9	3,335.8	3,438.2	3,636.7	3,517.2	3,573.7	3,386.4	3,521.1	3,438.4	3,320.6	3,376.0	3,462.7	**3,429.4**
PAD 4	472.8	499.3	503.9	515.4	511.8	589.1	565.4	571.6	536.2	520.5	502.4	483.9	**522.7**
PAD 5	2,293.6	2,263.1	2,294.7	2,371.6	2,361.8	2,249.2	2,341.4	2,361.3	2,256.9	2,274.2	2,213.9	2,159.4	**2,286.8**
Total U.S.	16,124.0	16,001.4	15,560.5	16,046.3	14,846.6	14,998.1	14,820.6	14,839.3	15,021.9	14,858.6	15,009.1	15,487.2	**15,301.1**
1983													
PAD 1	5,284.2	5,252.1	5,290.7	4,680.2	4,325.1	4,591.7	4,395.7	4,906.4	4,586.1	4,528.3	4,845.8	5,694.6	**4,865.1**
PAD 2	3,741.6	3,741.6	4,032.6	3,840.0	3,882.9	4,214.6	4,195.5	4,240.8	4,152.6	4,051.0	4,185.9	4,526.2	**4,067.1**
PAD 3	3,200.7	3,200.7	3,425.1	3,437.0	3,511.3	3,452.2	3,431.3	3,335.8	3,722.5	3,528.8	3,706.3	3,641.3	**3,466.1**
PAD 4	469.3	469.3	509.0	460.2	480.4	563.6	564.3	580.6	549.2	513.9	483.4	460.2	**508.6**
PAD 5	2,026.4	2,215.8	2,283.0	2,274.8	2,305.1	2,466.7	2,432.1	2,416.5	2,357.1	2,340.1	2,278.5	2,403.7	**2,316.7**
Total U.S.	14,722.3	14,791.9	15,540.5	14,692.1	14,504.7	15,288.8	15,018.8	15,480.1	15,505.9	14,962.3	15,499.8	16,725.9	**15,227.8**
1984													
PAD 1	6,074.9	5,041.3	5,332.7	4,700.3	4,505.5	4,705.4	4,150.7	4,837.5	4,416.2	4,605.8	5,021.2	5,049.5	**4,870.1**
PAD 2	4,196.9	3,880.6	4,141.9	4,037.1	4,342.5	4,355.7	4,340.4	4,353.2	4,242.1	4,426.8	4,356.9	4,035.3	**4,225.8**
PAD 3	3,797.9	3,776.3	3,622.1	3,921.1	3,752.6	3,705.4	3,929.1	3,864.9	28,717.5	3,576.0	3,429.8	3,506.4	**5,799.9**
PAD 4	476.9	478.5	464.7	485.1	514.0	547.9	553.0	580.7	520.8	542.2	505.3	479.3	**512.4**
PAD 5	2,254.3	2,260.4	2,488.6	2,424.6	2,505.3	2,394.2	2,524.6	5,273.7	2,480.9	2,465.6	2,313.3	2,304.7	**2,640.8**
Total U.S.	16,800.8	15,437.2	16,050.0	15,568.2	15,619.9	15,708.7	15,497.7	16,116.5	15,247.4	15,616.5	15,626.6	15,375.1	**15,722.0**
1985													
PAD 1	5,736.7	5,485.9	4,776.6	4,723.6	4,395.2	4,461.7	4,223.0	4,712.6	4,277.3	4,587.6	4,631.6	5,574.3	**4,798.8**
PAD 2	4,232.9	4,194.6	3,972.5	4,117.4	4,215.2	4,174.1	4,189.6	4,377.4	4,281.5	4,603.2	4,299.8	4,278.5	**4,244.7**
PAD 3	3,294.6	3,637.8	3,638.2	3,672.7	3,849.0	3,920.9	3,890.7	3,767.0	3,496.0	3,695.6	3,681.2	3,862.8	**3,700.5**
PAD 4	474.8	502.9	478.1	497.8	519.2	526.7	573.4	589.2	541.2	541.2	499.7	481.0	**518.8**
PAD 5	2,370.2	2,300.1	2,507.2	2,460.4	2,524.9	2,399.5	2,556.9	2,613.9	2,503.0	2,515.9	2,390.4	2,414.8	**2,463.1**
Total U.S.	16,109.2	16,121.3	15,372.6	15,471.7	15,503.6	15,482.9	15,433.7	16,060.1	15,099.0	15,943.5	15,502.8	16,611.3	**15,726.0**
1986													
PAD 1	5,755.2	5,722.5	5,247.1	5,114.1	4,776.8	4,849.4	4,885.3	5,125.9	4,717.5	5,155.2	5,070.0	5,798.2	**5,184.8**
PAD 2	3,956.5	3,802.9	4,095.7	4,092.1	4,141.5	4,080.2	4,386.5	4,388.4	4,128.2	4,419.6	4,146.2	4,128.8	**4,147.2**
PAD 3	3,520.0	3,782.0	3,831.3	3,712.1	3,960.1	3,752.5	3,814.7	3,790.5	3,920.7	3,949.5	4,001.7	4,209.3	**3,853.7**
PAD 4	454.6	450.0	490.6	507.2	550.4	555.6	552.6	578.8	560.5	527.9	484.2	474.2	**516.4**
PAD 5	2,391.7	2,428.6	2,611.6	2,519.2	2,564.3	2,811.7	2,667.8	2,734.7	2,582.0	2,550.2	2,519.0	2,520.5	**2,575.1**
Total U.S.	16,088.0	16,186.0	16,276.3	15,344.6	15,993.2	16,049.4	16,306.9	16,618.3	15,908.9	16,602.4	16,221.1	17,131.0	**16,277.2**

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration

Total Demand for Motor Gasoline
Total U.S.
Thousands of barrels per day

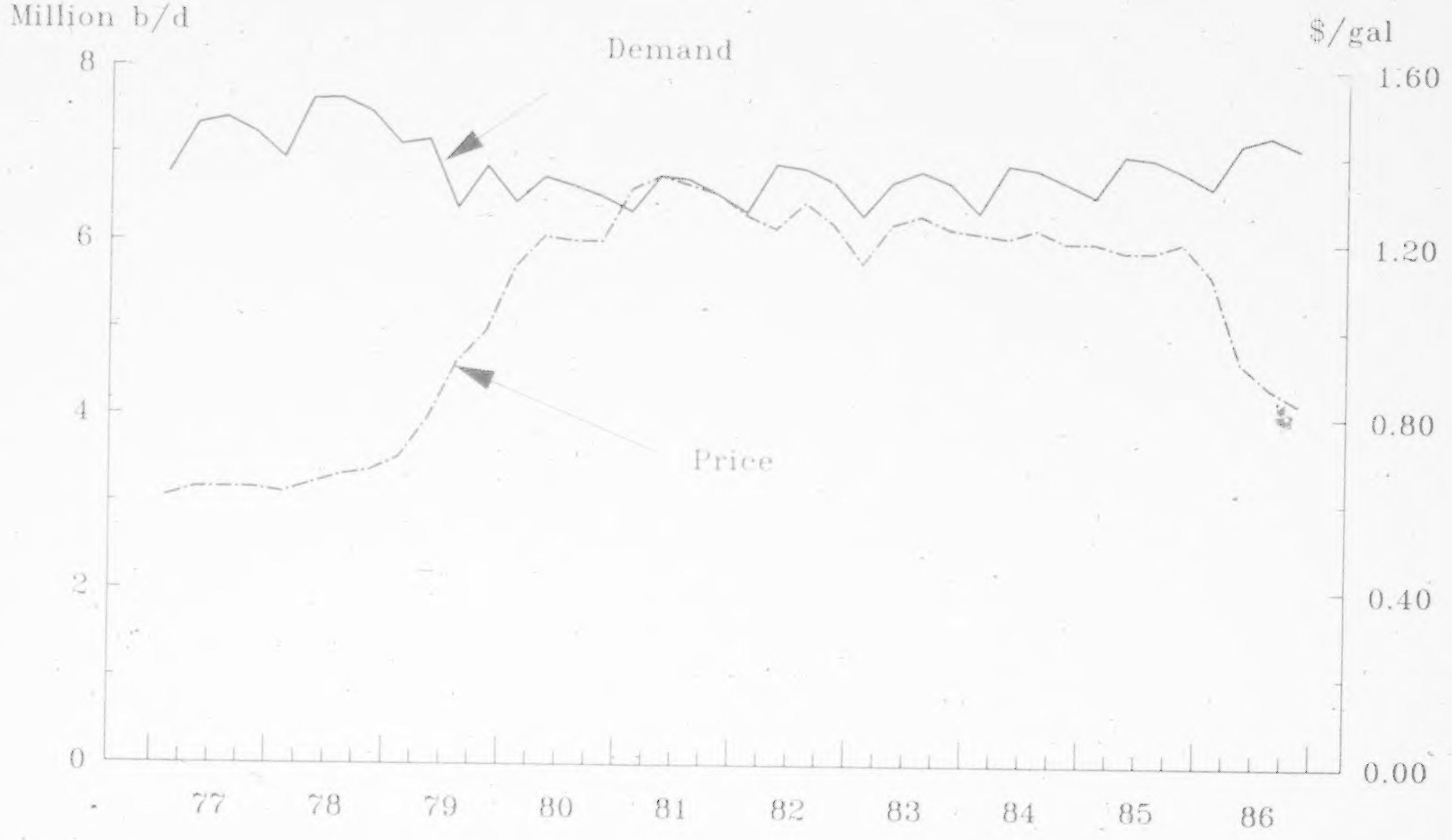
	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	5,263.5	5,477.5	5,838.8	6,198.1	5,902.3	6,451.7	6,432.0	6,296.5	6,068.3	6,033.2	6,114.2	6,070.2	**6,012.2**
1972	5,548.5	5,710.0	6,411.9	6,283.4	6,445.0	6,822.2	6,672.5	6,938.2	6,452.7	6,349.9	6,478.7	6,378.4	**6,374.3**
1973	6,117.6	6,436.5	6,512.9	6,541.4	6,907.3	6,963.7	7,023.1	7,256.6	6,580.6	6,676.9	6,823.0	6,236.8	**6,673.0**
1974	5,804.4	6,099.9	6,161.9	6,456.9	6,745.4	6,919.2	6,959.1	7,061.4	6,387.6	6,712.2	6,546.5	6,557.9	**6,534.4**
1975	6,205.9	6,096.1	6,325.7	6,718.1	6,871.3	7,076.2	7,040.6	7,008.3	6,728.7	6,777.6	6,389.7	6,808.0	**6,670.5**
1976	6,398.3	6,263.5	6,890.5	7,159.4	6,853.0	7,481.9	7,315.2	7,168.2	7,078.5	6,929.0	7,038.2	7,137.8	**6,976.1**
1977	6,472.2	6,899.7	6,907.9	7,345.1	7,029.3	7,592.8	7,439.5	7,419.9	7,316.1	7,130.4	7,191.4	7,374.7	**7,176.6**
1978	6,681.2	6,876.4	7,255.0	7,202.3	7,724.4	7,913.1	7,575.9	7,872.3	7,398.6	7,447.9	7,503.1	7,451.5	**7,408.5**
1979	6,830.4	7,254.4	7,229.0	7,055.0	7,213.4	7,190.8	6,901.8	7,330.3	6,880.8	7,020.5	6,790.9	6,730.4	**7,035.6**
1980	6,322.6	6,596.3	6,406.1	6,799.9	6,729.5	6,657.2	6,742.6	6,648.2	6,509.9	6,662.3	6,233.5	6,631.8	**6,578.3**
1981	6,431.2	6,300.6	6,302.6	6,602.3	6,614.9	7,027.8	6,823.0	6,636.8	6,662.0	6,577.7	6,372.8	6,681.1	**6,586.1**
1982	5,960.6	6,195.8	6,466.4	6,897.4	6,655.0	6,835.3	6,790.4	6,614.0	6,531.0	6,390.5	6,574.5	6,548.7	**6,538.3**
1983	6,050.7	6,000.3	6,835.8	6,452.3	6,617.0	6,993.6	6,765.4	6,935.5	6,726.9	6,588.2	6,603.1	6,846.2	**6,617.9**
1984	6,264.5	6,231.4	6,528.1	6,676.1	6,890.4	7,106.8	6,830.1	7,093.1	6,588.5	6,729.5	6,800.0	6,555.0	**6,691.1**
1985	6,348.4	6,587.5	6,664.1	6,955.6	7,060.0	6,996.7	7,008.2	7,241.5	6,629.5	6,896.6	6,770.2	6,792.4	**6,829.2**
1986	6,501.9	6,468.9	6,954.8	7,104.6	7,106.4	7,209.1	7,435.5	7,434.8	6,864.4	7,249.6	6,878.9	7,142.6	**7,029.3**

Total Demand for Motor Gasoline
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	163,169	153,370	181,002	185,942	182,971	193,550	199,393	195,190	182,050	187,028	183,425	188,177	**2,195,267**
1972	172,003	165,591	198,768	188,502	199,795	204,665	206,849	215,084	193,582	196,848	194,362	197,729	**2,333,778**
1973	189,647	180,223	201,901	196,243	214,125	208,912	217,717	224,955	197,417	206,985	204,689	193,342	**2,436,156**
1974	179,935	170,797	191,020	193,708	209,107	207,577	215,732	218,904	191,628	208,078	196,396	203,295	**2,386,177**
1975	192,382	170,691	196,097	201,542	213,010	212,285	218,258	217,257	201,861	210,107	191,690	211,049	**2,436,229**
1976	198,347	181,641	213,605	214,782	212,442	224,458	226,772	222,214	212,355	214,799	211,147	221,272	**2,553,834**
1977	200,637	193,191	214,144	220,352	217,907	227,783	230,624	230,018	219,484	221,043	215,741	228,616	**2,619,540**
1978	207,118	192,540	224,905	216,070	239,456	237,392	234,852	244,041	221,959	230,886	225,094	230,996	**2,705,309**
1979	211,741	203,122	224,099	211,651	223,615	215,723	213,957	227,238	206,424	217,634	203,728	208,641	**2,567,573**
1980	196,000	191,292	198,589	203,998	208,614	199,717	209,022	206,094	195,296	206,532	187,006	205,587	**2,407,747**
1981	199,366	176,416	195,382	198,068	205,061	210,834	211,513	205,741	199,859	203,909	191,184	207,115	**2,404,448**
1982	184,779	173,483	200,459	206,923	206,306	205,058	210,502	205,034	195,929	198,107	197,234	203,011	**2,386,825**
1983	187,573	168,007	211,909	193,569	205,126	209,807	209,728	215,001	201,807	204,233	198,092	212,231	**2,417,083**
1984	194,200	180,711	202,372	200,284	213,602	213,203	211,734	219,886	197,654	208,613	203,999	203,204	**2,449,462**
1985	196,799	184,449	206,588	208,669	218,861	209,902	217,255	224,487	198,884	213,796	203,105	210,565	**2,493,360**
1986	201,560	181,130	215,599	213,138	220,298	216,274	230,501	230,479	205,933	224,737	206,367	221,421	**2,567,437**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Motor Gasoline Demand and Price



Source: EIA

Demand for Gasoline by Type
Total U.S.
Thousands of barrels per day

		January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1981:	Leaded	3,290.1	3,205.8	3,205.6	3,318.7	3,499.9	3,609.3	3,398.8	3,292.9	3,323.7	3,320.5	3,174.5	3,237.3	**3,323.1**
	Unleaded	3,139.0	3,092.5	3,094.3	3,281.0	3,112.7	3,415.9	3,421.8	3,340.9	3,335.7	3,254.3	3,195.8	3,440.5	**3,260.4**
1982:	Leaded	2,893.2	2,985.3	3,108.1	3,402.3	3,240.1	3,269.8	3,222.5	3,088.3	3,127.2	3,039.7	3,123.8	3,063.3	**3,130.3**
	Unleaded	3,063.5	3,207.5	3,354.2	3,492.3	3,411.1	3,562.3	3,564.7	3,522.3	3,400.4	3,348.6	3,447.8	3,481.9	**3,404.7**
1983:	Leaded	2,686.4	2,736.2	3,213.8	2,960.7	3,058.6	3,201.8	3,019.7	3,099.5	3,036.1	2,877.3	2,911.2	2,880.3	**2,973.5**
	Unleaded	3,364.4	3,264.0	3,622.0	3,491.7	3,558.4	3,791.8	3,745.7	3,836.0	3,690.8	3,710.9	3,691.8	3,965.8	**3,644.4**
1984:	Leaded	2,659.3	2,646.7	2,778.0	2,818.9	2,836.0	2,892.8	2,772.9	2,810.5	2,615.3	2,636.3	2,554.8	2,387.4	**2,704.9**
	Unleaded	3,605.3	3,584.7	3,750.2	3,857.2	4,004.4	4,213.9	4,057.2	4,282.5	3,973.2	4,093.2	4,245.1	4,167.6	**3,986.2**
1985:	Leaded	2,332.1	2,461.4	2,461.7	2,599.6	2,614.5	2,514.5	2,463.6	2,486.5	2,272.7	2,411.6	2,292.7	2,231.2	**2,425.2**
	Unleaded	4,016.3	4,126.0	4,202.5	4,396.0	4,445.5	4,482.2	4,544.7	4,755.1	4,356.7	4,485.0	4,477.4	4,561.2	**4,404.0**
1986:	Leaded	2,098.2	2,103.7	2,276.7	2,321.7	2,377.6	2,295.6	2,253.5	2,296.9	2,051.1	2,164.1	1,960.5	1,950.0	**2,179.1**
	Unleaded	4,403.7	4,365.2	4,678.2	4,782.9	4,728.8	4,913.5	5,182.0	5,137.9	4,813.4	5,085.5	4,918.4	5,192.6	**4,850.2**

Demand for Gasoline by Type
Total U.S.
Thousands of barrels

		January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1981	Leaded	101,993	89,763	99,373	99,561	108,497	108,278	105,363	102,081	99,711	102,934	95,234	100,355	**1,213,143**
	Unleaded	97,310	86,590	95,922	98,429	96,495	102,476	106,075	103,568	100,071	100,882	95,875	106,654	**1,190,347**
1982:	Leaded	89,689	83,589	96,352	102,070	100,444	98,094	99,896	95,737	93,815	94,232	93,713	94,961	**1,142,592**
	Unleaded	94,968	89,811	103,979	104,770	105,744	106,869	110,507	109,191	102,012	103,808	103,434	107,939	**1,243,032**
1983:	Leaded	83,277	76,514	99,628	88,820	94,817	96,053	93,612	96,063	91,084	89,196	87,337	89,290	**1,085,811**
	Unleaded	104,296	91,393	112,281	104,750	110,309	113,754	116,116	118,917	110,723	115,037	110,755	122,941	**1,331,272**
1984:	Leaded	82,437	76,754	86,117	84,567	89,466	86,785	85,960	67,127	78,459	81,725	76,645	74,009	**990,051**
	Unleaded	111,763	103,957	116,255	115,717	124,136	126,417	125,774	132,759	119,195	126,888	127,353	129,195	**1,459,409**
1985:	Leaded	72,295	68,920	76,312	76,789	81,051	75,435	76,371	77,080	68,182	74,760	68,782	69,167	**885,144**
	Unleaded	124,504	115,529	130,276	131,880	137,809	134,467	140,885	147,407	130,702	139,036	134,322	141,398	**1,608,215**
1986:	Leaded	65,045	58,904	70,577	69,651	73,706	68,868	69,859	71,204	61,532	67,086	58,815	60,451	**795,698**
	Unleaded	136,515	122,226	145,023	143,486	146,592	147,405	160,642	159,276	144,402	157,651	147,552	160,970	**1,771,740**

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration

Motor Gasoline Demand by Sector
Millions of barrels

	Residential	Commercial	Industrial	Transportation	Electric Utilities	Total
1960	0	13	73	1,367	0	1,453
1961	0	13	69	1,393	0	1,476
1962	0	14	70	1,448	0	1,533
1963	0	14	67	1,501	0	1,582
1964	0	14	65	1,532	0	1,611
1965	0	15	65	1,596	0	1,676
1966	0	15	61	1,679	0	1,755
1967	0	16	58	1,736	0	1,810
1968	0	16	58	1,852	0	1,925
1969	0	16	56	1,945	0	2,017
1970	0	16	55	2,040	0	2,111
1971	0	16	52	2,127	0	2,195
1972	0	17	48	2,269	0	2,334
1973	0	17	49	2,371	0	2,436
1974	0	16	45	2,326	0	2,386
1975	0	17	43	2,377	0	2,436
1976	0	18	40	2,495	0	2,554
1977	0	19	37	2,563	0	2,620
1978	0	20	34	2,651	0	2,705
1979	0	20	31	2,517	0	2,568
1980	0	20	30	2,357	0	2,408
1981	0	17	30	2,357	0	2,404
1982	0	17	26	2,344	0	2,387
1983	0	20	22	2,376	0	2,417
1984	0	20	30	2,399	0	2,449
1985	0	18	41	2,434	0	2,493

Note: May not add to totals due to independent rounding.

Data from Oil & Gas Journal Energy Database
Source: Energy Information Administration

Motor Gasoline Sales by State
Thousands of barrels

	1979	1980	1981	1982	1983	1984	1985	1986
Alabama	49,850	46,715	44,029	43,819	44,319	45,364	44,797	47,907
Alaska	4,918	4,795	5,067	5,598	5,267	5,928	6,374	6,104
Arizona	33,643	31,636	32,010	31,943	33,593	35,475	37,045	38,931
Arkansas	30,232	28,067	27,095	26,749	26,866	28,406	27,767	28,858
California	270,607	261,715	258,163	253,822	262,682	271,752	277,530	289,897
Colorado	37,036	35,867	35,867	36,029	37,161	36,060	37,117	37,905
Connecticut	32,683	31,609	30,858	30,594	31,145	31,899	33,178	34,372
Delaware	7,297	6,996	6,919	6,725	7,352	7,625	7,767	7,934
Dist. of Columbia	4,844	4,082	4,073	4,060	4,000	4,314	3,856	3,989
Florida	116,801	114,536	115,359	116,671	120,910	125,279	130,048	123,084
Georgia	71,966	68,451	66,904	67,104	69,152	72,711	74,968	78,888
Hawaii	7,916	8,441	8,282	8,312	8,460	8,835	8,326	8,681
Idaho	12,827	11,627	11,216	10,859	10,938	10,913	11,036	11,176
Illinois	123,480	114,685	109,476	107,675	109,746	108,371	115,158	112,659
Indiana	68,929	63,956	62,304	57,890	59,030	60,046	61,336	75,825
Iowa	40,917	37,171	35,108	33,829	33,208	33,291	32,615	32,559
Kansas	33,496	31,219	30,211	29,432	29,530	29,648	29,385	29,732
Kentucky	44,476	41,795	41,288	40,991	41,293	42,018	41,346	44,056
Louisiana	51,389	49,555	50,081	51,074	51,215	51,586	50,771	51,068
Maine	12,897	12,310	11,851	12,039	12,378	12,638	13,050	13,858
Maryland	46,461	46,219	45,701	44,973	45,058	46,649	47,055	48,280
Massachusetts	57,428	54,802	53,570	53,238	53,970	55,719	56,872	58,526
Michigan	113,252	101,763	95,580	90,377	87,640	96,246	97,288	99,691
Minnesota	52,896	48,697	45,945	45,981	47,274	49,635	50,866	48,591
Mississippi	30,767	28,449	28,771	27,426	27,575	28,358	29,311	30,028
Missouri	66,339	61,967	60,205	59,402	60,382	61,934	62,244	65,765
Montana	11,890	10,951	11,025	10,771	10,949	10,851	10,518	10,558
Nebraska	21,604	20,175	19,012	18,871	18,498	18,573	18,503	18,496
Nevada	11,927	11,912	12,108	11,673	11,663	12,013	12,122	12,740
New Hampshire	10,323	9,791	9,493	9,364	9,648	10,343	10,641	11,471
New Jersey	80,823	77,643	74,821	75,536	80,283	79,957	78,835	83,919
New Mexico	18,892	17,698	17,678	17,729	17,641	18,199	18,652	17,366
New York	141,666	134,966	135,118	133,747	130,740	117,329	141,475	144,954
North Carolina	74,512	69,816	68,445	67,690	69,315	72,429	73,642	76,850
North Dakota	10,564	9,696	9,725	9,597	9,288	9,298	9,184	8,954
Ohio	127,539	118,633	113,492	108,598	110,352	112,964	112,834	116,148
Oklahoma	45,186	43,935	45,772	45,934	45,420	44,709	45,021	44,017
Oregon	32,977	31,681	30,262	28,836	29,117	30,077	29,873	28,191
Pennsylvania	120,043	112,758	106,583	104,384	104,061	105,294	105,470	107,711
Rhode Island	9,406	9,091	8,774	8,591	8,706	8,800	9,024	9,385
South Carolina	39,472	37,198	36,409	36,091	36,647	38,141	38,827	36,906
South Dakota	11,238	10,084	9,610	9,358	9,269	9,272	9,225	9,404
Tennessee	60,196	57,570	56,868	56,081	55,516	59,557	60,356	63,132
Texas	207,397	193,012	194,030	195,278	199,850	202,428	211,886	216,325
Utah	17,394	17,500	16,883	17,477	17,269	17,922	17,995	18,255
Vermont	6,217	5,687	5,574	5,641	5,763	6,002	6,019	6,182
Virginia	65,232	61,886	60,254	59,372	60,815	63,465	64,749	68,074
Washington	47,526	44,822	44,580	44,074	45,694	47,627	45,534	48,431
West Virginia	21,163	20,125	19,158	19,306	19,089	19,064	19,082	19,200
Wisconsin	56,011	51,842	49,233	47,192	47,901	48,157	48,166	49,074
Wyoming	9,087	8,898	8,930	8,558	8,066	8,526	7,928	6,768
Total U.S.	2,681,832	2,534,494	2,479,772	2,446,359	2,481,701	2,531,696	2,592,667	2,660,873

Data from Oil & Gas Journal Energy Database.
Source: Federal Highway Administration

Demand for Jet Naphtha
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	228.1	255.7	246.8	254.7	245.7	270.1	245.4	272.4	290.9	262.6	273.5	270.0	**259.6**
1972	218.2	258.9	212.3	264.8	265.5	266.6	230.9	220.5	236.0	255.9	261.5	213.5	**242.0**
1973	195.9	189.7	189.3	247.9	219.9	223.7	197.9	233.6	213.8	255.0	196.4	239.2	**216.9**
1974	173.1	165.6	203.4	217.6	270.9	242.1	213.8	238.8	263.0	228.7	240.1	208.5	**222.1**
1975	170.4	206.0	205.3	191.9	215.4	192.7	193.1	212.8	233.7	220.4	236.6	238.3	**209.7**
1976	142.1	188.1	190.6	206.0	214.8	195.3	213.4	189.1	242.8	177.5	211.1	214.4	**198.8**
1977	175.1	199.2	231.2	227.3	206.5	206.8	198.3	213.3	203.0	198.7	229.1	206.7	**207.9**
1978	154.3	208.8	198.8	209.1	219.2	189.5	192.4	219.8	197.3	208.0	201.6	187.2	**198.8**
1979	178.5	198.8	184.5	186.0	192.2	236.7	210.8	188.3	191.4	205.5	218.0	207.9	**199.9**
1980	205.9	188.8	250.7	221.3	214.5	214.2	206.0	224.6	221.0	208.0	216.3	230.3	**216.8**
1981	175.4	188.1	215.3	187.5	207.3	208.8	228.8	195.4	227.0	173.1	195.3	173.6	**198.0**
1982	164.3	219.4	210.2	222.3	208.3	229.1	221.3	224.5	192.6	191.5	209.6	213.8	**208.9**
1983	192.7	233.3	222.5	196.5	220.7	208.3	215.8	224.4	195.2	179.5	189.8	206.0	**207.1**
1984	190.9	200.9	203.7	257.6	241.0	211.5	232.2	256.5	229.9	222.0	234.1	190.6	**222.6**
1985	217.6	211.6	186.7	243.9	228.2	232.0	207.5	210.7	207.6	217.4	210.6	191.9	**213.8**
1986	199.6	183.0	191.4	170.7	218.5	215.4	234.5	188.0	199.4	206.7	208.8	208.9	**202.1**

Demand for Jet Naphtha
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	7,070	7,159	7,650	7,640	7,616	8,102	7,608	8,445	8,726	8,141	8,206	8,369	**94,732**
1972	6,765	7,507	6,581	7,944	8,229	7,998	7,159	6,835	7,079	7,934	7,846	6,618	**88,495**
1973	6,072	5,312	5,869	7,437	6,818	6,711	6,134	7,241	6,413	7,905	5,892	7,416	**79,220**
1974	5,365	4,637	6,306	6,527	8,399	7,262	6,627	7,404	7,891	7,089	7,202	6,462	**81,171**
1975	5,282	5,768	6,364	5,758	6,678	5,782	5,985	6,597	7,012	6,833	7,097	7,387	**76,543**
1976	4,405	5,456	5,910	6,181	6,659	5,860	6,616	5,863	7,283	5,501	6,332	6,647	**72,713**
1977	5,428	5,577	7,167	6,820	6,401	6,205	6,148	6,613	6,090	6,159	6,873	6,407	**75,888**
1978	4,784	5,846	6,164	6,274	6,795	5,684	5,965	6,815	5,920	6,448	6,047	5,804	**72,546**
1979	5,532	5,566	5,721	5,579	5,958	7,100	6,534	5,836	5,742	6,370	5,541	6,446	**72,925**
1980	6,383	5,474	7,771	6,639	6,649	6,427	6,386	6,964	6,631	6,447	6,489	7,139	**79,399**
1981	5,437	5,267	6,674	5,624	6,426	6,265	7,092	6,056	6,811	5,365	5,860	5,381	**72,258**
1982	5,092	6,142	6,517	6,669	6,457	6,872	6,860	6,960	5,777	5,938	6,288	6,627	**76,199**
1983	5,973	6,532	6,899	5,896	6,843	6,249	6,690	6,956	5,856	5,564	5,693	6,386	**75,537**
1984	5,918	5,827	6,315	7,727	7,471	6,345	7,199	7,951	6,898	6,881	7,023	5,909	**81,464**
1985	6,745	5,925	5,787	7,318	7,074	6,959	6,432	6,531	6,229	6,738	6,319	5,949	**78,006**
1986	6,188	5,125	5,933	5,120	6,773	6,461	7,271	5,828	5,983	6,408	6,265	6,475	**73,830**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Demand for Jet Kerosine
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	717.7	801.0	745.0	703.2	702.3	768.3	736.9	760.1	718.6	776.7	742.4	838.3	**750.9**
1972	802.3	881.9	795.6	721.0	734.0	896.7	768.6	725.7	798.6	915.3	788.1	816.1	**803.7**
1973	914.1	900.5	804.4	766.9	892.5	783.7	848.2	815.6	856.6	849.4	828.6	847.5	**842.3**
1974	722.1	694.4	752.3	723.0	782.2	709.6	814.3	732.2	846.3	782.5	791.7	834.1	**770.4**
1975	870.8	868.6	776.8	814.1	762.0	796.6	760.8	833.6	806.0	776.3	762.5	672.8	**791.8**
1976	805.6	777.1	774.3	803.7	745.4	776.4	885.4	776.2	805.0	733.6	767.3	812.9	**788.6**
1977	878.6	836.9	808.4	790.0	784.0	780.7	842.9	897.3	844.9	817.3	806.1	884.1	**830.9**
1978	825.6	899.3	908.3	802.2	777.5	854.7	821.4	906.6	879.2	859.3	905.1	859.2	**858.2**
1979	917.8	950.6	916.1	794.3	796.5	858.1	883.7	896.9	907.6	849.3	851.7	894.8	**876.4**
1980	897.0	883.0	865.5	886.6	793.8	843.5	903.6	818.1	834.0	822.9	808.5	852.1	**850.7**
1981	888.3	829.7	839.7	780.1	713.9	837.9	845.1	829.4	803.4	758.5	786.7	801.9	**809.6**
1982	870.9	833.3	769.4	781.8	799.2	761.1	780.5	757.5	839.9	768.9	844.6	841.6	**804.1**
1983	767.3	825.5	783.1	834.4	787.1	865.9	860.5	849.0	881.4	820.2	318.9	975.1	**839.0**
1984	1,010.6	918.6	897.8	903.2	905.0	892.1	956.3	992.0	976.7	1,001.8	924.2	1,050.5	**952.4**
1985	1,018.1	966.0	976.4	1,007.0	906.0	910.2	1,009.3	997.9	1,001.7	1,040.7	1,065.5	1,152.2	**1,004.2**
1986	1,090.3	1,093.3	1,007.3	1,086.4	1,029.8	1,106.5	1,090.6	1,163.6	1,121.5	1,065.6	1,171.0	1,235.8	**1,105.1**

Demand for Jet Kerosine
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	22,248	22,429	23,094	21,097	21,770	23,050	22,843	23,564	21,558	24,078	22,272	25,988	**273,991**
1972	24,871	25,574	24,664	21,629	22,755	26,901	23,828	22,497	23,958	28,375	23,643	25,300	**293,995**
1973	28,337	25,215	24,935	23,007	27,667	23,510	26,293	25,283	25,698	26,331	24,857	26,274	**307,407**
1974	22,385	19,442	23,320	21,689	24,248	21,289	25,244	24,557	25,389	24,257	23,752	25,857	**281,429**
1975	26,994	24,320	24,080	24,424	23,623	23,899	23,586	25,843	24,179	24,066	22,875	20,858	**288,747**
1976	24,974	22,536	24,004	24,110	23,107	23,291	27,447	24,063	24,151	22,742	23,020	25,200	**288,645**
1977	27,236	23,434	25,059	23,700	24,305	23,420	26,129	27,815	25,346	25,336	24,182	27,407	**303,369**
1978	25,593	25,181	28,157	24,065	24,101	25,642	25,463	28,104	26,375	26,639	27,154	26,634	**313,108**
1979	28,451	26,616	28,398	23,830	24,691	25,744	27,394	27,803	27,227	26,328	25,552	27,740	**319,774**
1980	27,808	25,608	26,831	26,598	24,607	25,305	28,011	25,360	25,020	25,509	24,255	26,415	**311,327**
1981	27,538	23,231	26,032	23,403	22,130	25,138	26,197	25,711	24,103	23,515	23,601	24,859	**295,458**
1982	26,999	23,333	23,851	23,455	24,775	22,832	24,194	23,482	25,197	23,837	25,339	26,090	**293,384**
1983	23,785	23,115	24,275	25,031	24,401	25,978	26,677	26,318	26,443	25,427	24,568	30,229	**306,247**
1984	31,330	26,639	27,832	27,096	28,054	26,764	29,645	30,751	29,300	31,057	27,726	32,567	**348,761**
1985	31,560	27,049	30,269	30,209	28,085	27,307	31,287	30,936	30,050	32,263	31,965	35,717	**366,697**
1986	33,800	30,611	31,225	32,593	31,924	33,194	33,810	36,073	33,645	33,034	35,129	38,309	**403,347**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Demand for Kerosine
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	431.2	452.5	282.6	211.3	125.0	150.7	141.2	144.4	195.6	219.4	284.5	365.4	**250.3**
1972	381.2	369.1	282.9	175.5	143.0	115.8	92.3	170.8	198.1	237.6	285.1	366.8	**234.9**
1973	406.0	385.1	200.7	163.1	132.3	117.6	148.5	146.6	184.5	179.5	305.6	238.3	**217.3**
1974	311.5	280.9	178.0	130.0	71.3	114.7	124.6	140.6	137.9	192.4	195.5	244.2	**176.8**
1975	219.8	252.8	167.2	146.1	97.3	132.0	97.5	107.0	125.0	146.1	146.8	275.3	**159.4**
1976	298.0	217.8	158.7	139.0	78.0	120.6	99.5	94.3	149.5	155.6	215.8	304.7	**169.3**
1977	357.2	264.8	144.2	118.4	106.0	98.3	135.7	117.1	129.2	189.5	169.8	275.3	**175.5**
1978	310.7	319.1	200.4	108.1	124.9	91.0	94.3	112.6	175.0	173.0	177.3	228.1	**176.2**
1979	330.3	337.9	158.7	156.6	138.5	139.6	130.3	158.2	159.7	180.8	153.1	220.6	**188.7**
1980	238.7	231.7	174.7	140.6	112.2	118.0	114.6	137.0	131.0	144.9	124.0	234.2	**158.5**
1981	225.7	159.0	112.9	94.4	85.4	83.6	90.9	94.1	93.4	133.9	152.8	196.7	**126.9**
1982	205.3	177.5	117.4	108.8	103.7	82.6	96.3	78.3	107.8	141.3	139.8	187.5	**128.9**
1983	174.3	151.4	124.0	134.0	102.1	66.6	85.3	89.0	103.6	108.1	158.7	227.7	**127.1**
1984	208.2	112.3	126.5	111.3	62.8	85.3	88.9	80.5	115.2	83.2	172.5	137.0	**115.3**
1985	238.9	174.9	69.7	74.4	64.1	81.5	51.7	88.3	76.4	96.8	102.4	249.5	**114.1**
1986	170.4	140.1	124.6	53.7	67.6	30.5	61.8	98.8	56.5	100.1	117.7	157.0	**98.2**

Demand for Kerosine
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	13,366	12,671	8,761	6,339	3,876	4,520	4,378	4,475	5,868	6,800	8,536	11,327	**90,917**
1972	11,817	10,703	8,769	5,266	4,432	3,475	2,861	5,295	5,940	7,365	8,554	11,372	**85,852**
1973	12,585	10,784	6,222	4,894	4,102	3,529	4,602	4,546	5,534	5,563	9,168	7,386	**78,915**
1974	9,657	7,866	5,518	3,899	2,210	3,442	3,864	4,360	4,136	5,964	5,866	7,570	**64,352**
1975	6,814	7,078	5,182	4,384	3,017	3,961	3,022	3,317	3,750	4,528	4,403	8,534	**57,990**
1976	9,239	6,317	4,920	4,169	2,419	3,618	3,085	2,922	4,486	4,825	6,474	9,446	**61,920**
1977	11,073	7,413	4,470	3,552	3,285	2,948	4,208	3,631	3,876	5,876	5,095	8,535	**63,962**
1978	9,633	8,935	6,213	3,242	3,873	2,730	2,924	3,491	5,249	5,364	5,318	7,070	**64,042**
1979	10,238	9,462	4,920	4,697	4,294	4,189	4,038	4,903	4,792	5,605	4,594	6,838	**68,570**
1980	7,399	6,719	5,415	4,217	3,479	3,539	3,553	4,246	3,929	4,493	3,720	7,261	**57,970**
1981	6,997	4,452	3,501	2,833	2,647	2,507	2,818	2,918	2,803	4,150	4,583	6,098	**46,307**
1982	6,363	4,970	3,640	3,264	3,215	2,479	2,985	2,427	3,234	4,380	4,195	5,811	**46,963**
1983	5,403	4,240	3,844	4,020	3,164	1,999	2,645	2,758	3,109	3,350	4,762	7,059	**46,353**
1984	6,453	3,256	3,920	3,340	1,947	2,560	2,755	2,496	3,457	2,579	5,174	4,248	**42,185**
1985	7,405	4,897	2,160	2,232	1,988	2,445	1,604	2,736	2,292	3,001	3,072	7,736	**41,568**
1986	5,281	3,924	3,862	1,610	2,096	915	1,917	3,062	1,696	3,103	3,530	4,867	**35,863**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Kerosine Demand by Sector
Millions of barrels

	Residential	Commercial	Industrial	Transportation	Electric Utilities	Total
1960	62	8	28	0	1	99
1961	66	8	23	0	0	97
1962	65	8	25	0	0	98
1963	65	8	24	0	0	97
1964	57	8	28	0	0	93
1965	59	9	29	0	1	98
1966	56	11	35	0	0	102
1967	52	8	40	0	0	100
1968	56	11	36	0	0	103
1969	55	11	35	0	0	101
1970	53	11	33	0	0	97
1971	52	10	29	0	0	91
1972	48	10	28	0	0	86
1973	40	11	27	0	1	79
1974	32	10	22	0	0	64
1975	28	9	21	0	0	58
1976	33	8	22	0	0	63
1977	30	9	25	0	0	64
1978	27	10	27	0	0	64
1979	23	14	31	0	1	69
1980	19	7	32	0	0	58
1981	15	12	19	0	0	46
1982	17	5	25	0	0	47
1983	15	20	12	0	0	47
1984	16	16	10	0	0	42
1985	21	9	12	0	0	42

Note: May not add to totals due to independent rounding.

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration

Demand for Distillate Fuel Oil
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	3,991.1	3,833.4	3,197.9	2,635.0	2,119.1	2,003.1	1,754.1	1,809.7	2,038.8	2,116.5	2,847.9	3,664.5	**2,667.6**
1972	3,723.0	4,164.0	3,482.0	2,777.7	2,250.5	2,193.9	1,765.4	2,063.9	2,205.3	2,759.2	3,383.9	4,231.7	**2,916.7**
1973	4,138.3	4,301.7	3,337.1	2,634.6	2,672.6	2,418.7	2,328.2	2,555.1	2,674.7	2,930.1	3,507.7	3,690.1	**3,099.1**
1974	3,835.4	3,848.8	3,164.1	2,852.2	2,450.0	2,377.0	2,308.6	2,308.9	2,385.4	2,887.0	3,156.6	3,853.0	**2,952.2**
1975	3,962.8	3,803.2	3,291.7	3,093.7	2,382.3	2,267.4	2,109.4	2,173.1	2,163.2	2,677.1	2,543.6	3,792.1	**2,855.0**
1976	4,297.4	3,697.1	3,339.2	2,787.6	2,519.2	2,436.3	2,255.1	2,237.3	2,619.8	3,031.4	3,713.8	4,667.3	**3,133.5**
1977	5,103.2	4,708.0	3,442.5	2,935.6	2,781.9	2,769.9	2,550.1	2,631.9	2,714.2	3,036.5	3,420.6	4,205.3	**3,358.3**
1978	4,458.2	4,848.4	4,107.9	3,111.4	3,103.4	2,836.7	2,522.3	2,800.3	2,663.6	3,076.9	3,582.8	4,156.0	**3,439.0**
1979	4,580.5	4,812.2	3,664.5	3,016.3	2,997.5	2,707.9	2,562.8	2,760.8	2,646.7	3,118.6	3,289.4	3,708.0	**3,322.1**
1980	3,713.6	3,711.9	3,178.8	2,634.6	2,401.9	2,317.2	2,248.8	2,136.9	2,587.3	2,920.4	2,949.0	3,615.1	**2,868.0**
1981	4,109.1	3,373.4	2,904.1	2,531.7	2,410.7	2,464.3	2,377.7	2,387.7	2,512.6	2,803.2	2,880.4	3,212.2	**2,830.6**
1982	3,484.3	3,085.1	2,944.8	2,977.9	2,444.1	2,451.6	2,057.6	2,217.8	2,506.6	2,581.4	2,474.8	2,855.4	**2,673.5**
1983	2,796.5	2,779.5	2,947.4	2,697.4	2,354.2	2,523.8	2,269.7	2,495.1	2,575.4	2,610.7	2,873.6	3,364.8	**2,690.7**
1984	3,524.9	2,834.0	3,259.5	2,926.3	2,813.6	2,593.4	2,503.9	2,558.8	2,654.5	2,765.1	2,826.6	2,864.7	**2,843.8**
1985	3,465.1	3,330.3	3,093.2	2,797.8	2,607.1	2,593.9	2,436.1	2,636.1	2,575.0	2,900.9	2,747.1	3,253.9	**2,869.7**
1986	3,329.8	3,416.1	3,168.3	2,904.0	2,762.5	2,543.8	2,592.4	2,620.8	2,540.2	2,912.0	2,877.0	3,328.5	**2,916.3**

Demand for Distillate Fuel Oil
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	123,725	107,336	99,135	79,050	65,692	60,093	54,376	56,100	61,164	65,610	85,436	113,599	**971,316**
1972	115,413	120,757	107,941	83,332	69,764	65,817	54,726	63,980	66,160	85,536	101,500	131,184	**1,066,110**
1973	128,286	120,447	103,451	79,037	82,851	72,560	72,175	79,208	80,241	90,834	105,230	114,394	**1,128,714**
1974	118,898	107,765	98,088	85,566	75,949	71,311	71,566	71,575	71,561	89,496	94,699	119,442	**1,075,916**
1975	122,848	106,490	102,043	92,812	73,852	68,023	65,390	67,365	64,895	82,990	76,308	117,555	**1,040,571**
1976	133,220	107,215	103,515	83,629	78,096	73,088	69,909	69,355	78,594	93,972	111,415	144,687	**1,146,695**
1977	158,199	131,825	106,716	88,067	86,239	83,097	79,054	81,589	81,425	94,133	102,619	130,365	**1,223,328**
1978	138,203	135,754	127,345	93,342	96,204	85,100	78,190	86,808	79,909	95,383	107,483	128,835	**1,252,556**
1979	141,996	134,741	113,598	90,488	92,923	81,236	79,447	85,586	79,400	96,676	98,682	114,948	**1,209,721**
1980	115,121	107,645	98,544	79,039	74,460	69,716	69,714	66,245	77,620	90,533	88,471	112,067	**1,048,975**
1981	127,383	94,456	90,027	75,951	74,733	73,930	73,708	74,019	75,378	85,900	86,413	99,578	**1,032,476**
1982	108,012	86,383	91,289	89,338	75,776	73,547	63,786	68,752	75,197	80,022	74,245	88,518	**974,865**
1983	86,692	77,827	91,369	80,921	72,980	75,715	70,362	77,348	77,262	80,931	86,209	104,310	**981,926**
1984	109,271	82,185	101,043	87,790	87,223	77,803	77,622	79,322	79,634	85,719	84,799	88,806	**1,041,217**
1985	107,419	93,248	95,890	83,934	80,820	77,816	75,518	81,719	77,251	89,927	82,413	100,870	**1,046,825**
1986	103,223	95,652	98,216	87,119	85,637	76,313	80,364	81,246	76,205	90,271	86,309	103,184	**1,063,739**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Distillate Fuel Oil Demand by Sector
Millions of barrels

	Residential	Commercial	Industrial	Transportation	Electric Utilities	Total
1960	269	85	174	153	4	685
1961	276	87	175	153	3	694
1962	290	90	183	166	3	732
1963	289	90	181	183	4	747
1964	280	87	184	195	4	750
1965	294	92	197	188	5	776
1966	291	91	210	200	5	797
1967	305	95	212	199	7	818
1968	317	98	210	239	11	875
1969	316	98	214	257	15	900
1970	322	101	211	269	24	927
1971	326	102	217	292	34	971
1972	343	108	237	333	45	1,066
1973	344	110	252	381	42	1,129
1974	317	102	231	378	48	1,076
1975	310	101	230	364	36	1,041
1976	341	113	263	393	37	1,147
1977	342	116	295	427	43	1,223
1978	335	114	300	460	44	1,253
1979	279	100	303	499	27	1,208
1980	226	89	227	480	27	1,049
1981	197	78	238	498	21	1,032
1982	180	75	225	479	16	975
1983	159	112	196	499	16	982
1984	165	117	206	540	14	1,041
1985	171	107	204	552	13	1,047

Note: May not add to totals due to independent rounding.

Data from Oil & GAS Journal Energy Database
Source: Energy Information Administration

Demand for Residual Fuel Oil
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	2,789.2	2,883.1	2,663.4	2,228.6	1,936.2	1,983.5	1,922.3	1,797.8	2,072.6	1,930.2	2,572.1	2,819.7	2,299.9
1972	2,815.3	3,170.8	2,682.3	2,443.7	2,110.9	2,195.8	2,107.3	2,257.1	2,238.7	2,361.6	2,842.8	3,151.4	2,531.5
1973	3,306.0	3,381.6	3,083.5	2,476.5	2,521.5	2,607.1	2,411.7	2,755.5	2,676.0	2,590.0	3,157.6	2,944.0	2,825.9
1974	3,035.5	2,991.3	2,555.8	2,437.0	2,259.9	2,404.9	2,473.1	2,529.3	2,475.0	2,611.2	2,935.4	2,983.4	2,641.0
1975	3,253.1	2,848.6	2,668.6	2,232.5	2,086.8	2,177.0	2,219.8	2,156.8	2,328.2	2,268.4	2,405.4	2,911.7	2,463.1
1976	3,117.8	3,076.8	2,779.3	2,495.6	2,439.5	2,508.9	2,548.3	2,678.2	2,526.4	2,547.1	3,253.2	3,644.6	2,801.3
1977	3,761.2	3,718.8	3,185.3	2,873.6	2,729.1	2,957.6	2,812.3	3,048.6	2,926.4	2,707.1	2,818.6	3,353.6	3,074.4
1978	3,517.6	3,973.5	3,539.7	3,002.8	2,686.5	2,625.1	2,771.6	2,928.7	2,715.8	2,620.8	2,844.8	3,106.7	3,027.8
1979	3,559.5	3,595.2	3,239.2	2,507.3	2,502.7	2,582.7	2,451.1	2,549.5	2,608.8	2,539.5	2,815.0	3,012.5	2,830.3
1980	3,067.4	3,104.8	2,658.3	2,444.4	2,234.8	2,320.7	2,290.7	2,286.2	2,358.5	2,226.9	2,451.0	2,679.3	2,510.2
1981	2,895.7	2,587.9	2,126.2	1,867.5	1,817.5	2,037.2	1,971.1	1,852.3	1,882.4	1,884.0	1,908.7	2,249.8	2,090.0
1982	2,184.8	2,344.2	1,903.1	1,922.8	1,559.8	1,500.9	1,550.0	1,530.4	1,470.4	1,490.1	1,590.9	1,598.4	1,720.5
1983	1,626.1	1,570.1	1,578.8	1,374.1	1,342.3	1,323.0	1,299.2	1,399.6	1,350.8	1,242.6	1,361.6	1,587.5	1,421.3
1984	1,978.9	1,651.2	1,619.1	1,384.0	1,237.1	1,343.5	1,192.5	1,261.3	1,168.1	1,066.2	1,352.5	1,189.2	1,370.3
1985	1,479.8	1,366.0	1,190.1	1,125.7	1,156.3	1,043.5	1,058.0	1,168.5	1,030.9	1,041.9	1,289.5	1,483.0	1,202.8
1986	1,407.1	1,477.5	1,434.6	1,402.3	1,344.8	1,376.6	1,508.1	1,485.3	1,295.9	1,258.9	1,390.8	1,637.8	1,418.3

Demand for Residual Fuel Oil
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	86,464	80,728	82,564	66,857	60,022	59,504	59,590	55,732	62,177	59,835	77,162	87,410	838,045
1972	87,275	91,953	83,151	73,311	65,439	65,873	65,327	69,970	67,161	73,210	85,283	97,694	925,647
1973	102,485	94,684	95,589	74,296	78,165	78,214	74,764	85,419	80,279	80,290	94,729	91,263	1,030,177
1974	94,102	83,755	79,229	73,111	70,057	72,147	76,665	78,407	74,250	80,948	88,061	92,484	963,216
1975	100,845	79,762	82,727	66,974	64,690	65,310	68,814	66,860	69,846	70,320	72,162	90,262	898,572
1976	96,653	89,227	86,157	74,868	75,624	75,268	78,997	83,023	75,793	78,961	97,595	112,982	1,025,148
1977	116,598	104,126	98,743	86,209	84,603	88,729	87,181	94,506	87,793	83,920	84,557	103,962	1,120,927
1978	109,047	111,259	109,731	90,083	83,280	78,754	85,920	90,789	81,473	81,244	85,344	96,309	1,103,233
1979	110,346	100,665	100,415	75,219	77,584	77,480	75,984	79,035	78,264	78,726	84,451	93,388	1,031,557
1980	95,089	90,040	82,406	73,331	69,278	69,620	71,012	70,871	70,756	69,035	73,531	83,057	918,026
1981	89,767	72,462	65,911	56,026	56,342	61,115	61,105	57,421	56,472	58,404	57,260	69,745	762,030
1982	67,729	65,637	58,996	57,685	48,355	45,027	48,051	47,443	44,113	46,194	47,728	49,551	626,509
1983	50,410	43,964	48,942	41,222	41,612	39,690	40,274	43,389	40,525	38,521	40,847	49,211	518,607
1984	61,345	47,886	50,192	41,520	38,350	40,306	36,966	39,101	35,042	33,052	40,574	36,866	501,200
1985	45,874	38,247	36,892	33,772	35,846	31,304	32,799	36,222	30,926	32,300	38,686	45,973	438,841
1986	43,620	41,371	44,473	42,069	41,689	41,299	46,752	46,043	38,878	39,026	41,724	50,773	517,717

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Residual Fuel Oil Demand by Sector
Millions of barrels

	Residential	Commercial	Industrial	Transportation	Electric Utilities	Total
1960	0	89	252	134	84	**559**
1961	0	90	242	132	85	**549**
1962	0	90	244	126	86	**546**
1963	0	87	244	119	89	**539**
1964	0	86	248	124	97	**555**
1965	0	103	252	123	109	**587**
1966	0	109	259	124	134	**626**
1967	0	114	253	131	154	**652**
1968	0	112	250	128	178	**668**
1969	0	111	254	121	236	**722**
1970	0	114	258	121	311	**804**
1971	0	107	257	111	363	**838**
1972	0	103	280	103	440	**926**
1973	0	106	295	116	513	**1,030**
1974	0	94	275	111	483	**963**
1975	0	78	240	113	468	**899**
1976	0	90	290	131	514	**1,025**
1977	0	94	308	145	574	**1,121**
1978	0	85	273	157	588	**1,103**
1979	0	80	263	195	494	**1,032**
1980	0	90	215	222	391	**918**
1981	0	66	172	194	330	**762**
1982	0	63	166	162	236	**627**
1983	0	33	126	131	229	**519**
1984	0	33	139	139	190	**501**
1985	0	30	120	130	159	**439**

Note: May not add to totals due to independent rounding.

Data from Oil & Gas Journal Energy Database
Source: Energy Information Administration

Demand for Liquified Petroleum Gases & Ethane
Total U.S.
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	1,637.9	1,535.8	1,208.2	1,018.4	948.7	949.1	929.9	1,054.5	1,145.3	1,245.8	1,445.0	1,642.1	**1,227.6**
1972	1,719.6	1,723.5	1,390.0	1,154.9	972.1	1,091.0	1,095.3	1,219.3	1,220.0	1,499.1	1,743.9	1,923.3	**1,396.0**
1973	1,970.8	1,833.3	1,381.8	1,273.7	1,239.1	1,120.8	1,076.1	1,244.0	1,264.5	1,461.9	1,668.6	1,574.9	**1,425.8**
1974	1,744.8	1,554.4	1,371.4	1,283.8	1,142.2	1,220.2	1,150.0	1,185.1	1,325.8	1,458.2	1,572.0	1,663.7	**1,389.3**
1975	1,680.4	1,486.7	1,379.3	1,216.7	980.3	978.9	1,167.7	1,188.2	1,233.8	1,404.4	1,404.9	1,739.5	**1,321.7**
1976	1,844.3	1,502.0	1,285.5	1,185.5	1,121.5	1,093.9	1,089.5	1,196.4	1,223.2	1,481.6	1,732.8	1,907.5	**1,388.6**
1977	1,913.9	1,898.2	1,332.9	1,206.2	1,147.4	1,222.3	1,111.8	1,158.5	1,182.7	1,389.7	1,565.0	1,739.8	**1,405.7**
1978	1,854.3	1,788.6	1,413.4	1,149.7	1,156.2	1,109.5	1,109.5	1,073.1	1,323.6	1,468.7	1,576.7	1,819.3	**1,403.6**
1979	2,076.1	1,999.8	1,648.4	1,385.2	1,341.1	1,270.4	1,346.8	1,421.2	1,382.1	1,637.4	1,707.8	1,819.0	**1,586.3**
1980	1,956.2	1,755.2	1,499.3	1,196.4	1,291.0	1,199.0	1,143.6	1,147.6	1,376.7	1,593.5	1,526.2	1,879.8	**1,463.7**
1981	1,913.2	1,769.5	1,530.5	1,307.7	1,278.8	1,304.4	1,228.8	1,160.5	1,438.2	1,556.3	1,495.4	1,623.9	**1,467.3**
1982	1,863.3	1,621.1	1,614.7	1,457.6	1,402.6	1,253.7	1,399.2	1,276.1	1,462.9	1,420.8	1,582.7	1,642.3	**1,499.7**
1983	1,939.3	1,713.3	1,377.1	1,260.3	1,262.6	1,240.6	1,354.4	1,288.9	1,530.9	1,467.0	1,640.3	2,038.1	**1,509.4**
1984	2,015.5	1,689.9	1,593.2	1,425.9	1,398.8	1,380.4	1,443.9	1,489.9	1,461.7	1,650.4	1,588.5	1,724.5	**1,571.9**
1985	1,937.3	1,865.0	1,587.5	1,368.3	1,352.6	1,432.4	1,420.5	1,409.1	1,509.9	1,793.7	1,620.2	1,901.1	**1,599.8**
1986	1,799.6	1,732.6	1,499.7	1,286.5	1,238.0	1,158.3	1,287.2	1,261.6	1,455.6	1,749.9	1,816.5	1,874.9	**1,513.4**

Demand for Liquified Petroleum Gases & Ethane
Total U.S.
Thousands of barrels

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971	50,776	43,002	37,454	30,552	28,479	28,474	28,827	32,689	34,358	38,619	43,350	50,905	**447,486**
1972	53,307	49,981	43,090	34,647	30,136	32,730	33,954	37,797	36,599	46,472	52,317	59,623	**510,653**
1973	61,094	51,333	42,835	38,210	38,413	33,624	33,360	38,565	37,935	45,319	50,057	48,822	**519,567**
1974	54,088	43,524	42,512	38,515	35,407	36,605	35,651	36,738	39,773	45,205	47,161	51,576	**506,755**
1975	52,091	41,627	42,759	36,501	30,389	29,367	36,199	36,834	37,013	43,537	42,147	53,926	**482,390**
1976	57,172	43,557	39,850	35,564	34,768	32,816	33,774	37,088	36,695	45,930	51,985	59,132	**508,331**
1977	59,330	53,149	41,320	36,187	35,569	36,668	34,465	35,914	35,481	43,081	46,949	53,935	**512,048**
1978	57,482	50,080	43,816	34,491	35,843	33,284	34,396	33,266	39,709	45,530	47,302	56,399	**511,598**
1979	64,360	55,995	51,099	41,555	41,575	38,111	41,750	44,058	41,464	50,759	51,235	56,388	**578,349**
1980	60,641	50,900	46,479	35,893	40,022	35,969	35,451	35,576	41,301	49,398	45,785	58,274	**535,689**
1981	59,308	49,545	47,445	39,230	39,643	39,133	38,094	35,975	43,147	48,244	44,863	50,342	**534,969**
1982	57,762	45,392	50,057	43,728	43,480	37,611	43,374	39,558	43,886	44,045	47,480	50,911	**547,284**
1983	60,119	47,971	42,689	37,810	39,141	37,217	41,987	39,957	45,927	45,476	49,210	63,181	**55[illegible],685**
1984	62,480	49,006	49,389	42,778	43,364	41,412	44,761	46,188	43,851	51,163	47,654	53,458	**57[illegible],504**
1985	60,057	52,220	49,213	41,049	41,932	42,973	44,034	43,681	45,296	55,605	48,607	58,933	**583,600**
1986	55,789	48,512	46,490	38,594	38,378	34,749	39,903	39,109	43,669	54,246	54,496	58,122	**552,057**

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Liquified Petroleum Gases Demand by Sector
Millions of barrels

	Residential	Commercial	Industrial	Transportation	Electric Utilities	Total
1960	85	15	122	5	0	227
1961	87	15	126	5	0	234
1962	95	17	138	5	0	255
1963	102	18	151	5	0	276
1964	105	19	165	6	0	295
1965	108	19	174	6	0	307
1966	115	20	183	6	0	324
1967	126	22	191	5	0	344
1968	136	24	220	6	0	386
1969	155	27	256	7	0	446
1970	153	27	260	7	0	447
1971	155	27	266	8	0	457
1972	167	29	314	10	0	520
1973	159	28	332	10	0	529
1974	146	26	330	11	0	513
1975	142	25	309	10	0	486
1976	148	26	330	10	0	514
1977	145	26	338	10	0	519
1978	141	25	342	8	0	516
1979	56	17	464	3	0	581
1980	88	16	429	5	0	538
1981	85	15	429	6	0	535
1982	82	14	443	8	0	547
1983	98	17	426	10	0	551
1984	105	19	438	14	0	576
1985	117	21	431	14	0	584

Note: May not add to totals due to independent rounding.

Data from Oil & Gas Journal Energy Database
Source: Energy Information Administration

Worldwide Crude Oil Consumption
Thousands of barrels daily

	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
United States	12,275	13,085	13,815	14,350	14,845	15,990	16,870	16,150	15,875	16,980
Canada	1,285	1,375	1,440	1,525	1,585	1,655	1,755	1,785	1,735	1,790
North America	13,560	14,460	15,255	15,875	16,430	17,645	18,625	17,935	17,610	18,770
Austria	130	150	160	185	205	215	235	210	215	230
Belgium & Luxembourg	390	440	500	560	570	620	635	560	535	560
Denmark	245	275	330	365	365	385	360	320	315	335
Finland	145	165	190	210	220	235	260	230	235	255
France	1,360	1,470	1,705	1,920	2,090	2,315	2,585	2,460	2,255	2,430
Greece	115	115	125	135	150	170	200	185	195	210
Iceland	10	10	10	10	10	10	15	15	10	10
Ireland	60	70	75	80	90	100	110	110	105	105
Italy	1,255	1,385	1,530	1,740	1,875	1,965	2,070	2,015	1,895	2,065
Netherlands	550	590	650	725	720	805	835	725	710	795
Norway	120	135	150	165	165	170	175	160	165	180
Portugal	65	70	80	95	115	120	130	135	140	145
Spain	410	435	495	565	635	655	790	820	865	970
Sweden	420	470	530	590	560	565	585	540	535	590
Switzerland	190	210	230	260	275	280	300	270	260	270
Turkey	115	130	140	155	180	200	250	255	275	310
United Kingdom	1,735	1,840	1,980	2,095	2,105	2,230	2,300	2,135	1,875	1,860
West Germany	1,895	2,135	2,420	2,655	2,745	2,885	3,070	2,760	2,655	2,855
Western Europe	9,210	10,095	11,300	12,510	13,075	13,925	14,905	13,905	13,240	14,175
Australia	410	455	485	510	535	540	590	610	605	630
New Zealand	65	70	70	85	85	90	95	95	90	95
Australasia	475	525	555	595	620	630	685	705	695	725
Japan	2,465	2,850	3,390	4,000	4,435	4,735	5,460	5,270	5,020	5,190
Total OECD	25,710	27,930	30,500	32,980	34,560	36,935	39,675	37,815	36,565	38,860
Cyprus/Gibraltar/Malta	15	20	20	20	25	25	25	25	20	25
Latin America	2,195	2,325	2,510	2,645	2,820	3,060	3,355	3,495	3,520	3,570
Middle East	755	795	920	965	1,055	1,115	1,210	1,720	1,320	1,475
Africa	700	735	795	855	900	920	1,010	1,035	1,050	1,155
South Asia	415	455	535	540	565	585	635	600	610	655
South East Asia	715	830	905	1,030	1,135	1,285	1,465	1,510	1,535	1,675
Other Non-Communist	4,795	5,160	5,685	6,055	6,500	6,990	7,700	7,985	8,055	8,565
Total Non-Communist	30,505	33,090	36,185	39,035	41,060	43,925	47,375	45,800	44,620	47,425
China	275	300	400	560	725	855	1,065	1,225	1,350	1,530
USSR	4,250	4,515	4,815	5,310	5,655	6,115	6,595	7,280	7,520	7,780
Others	1,090	1,200	1,400	1,535	1,715	1,870	2,010	2,090	2,235	2,430
TotalCommunist	5,615	6,015	6,615	7,405	8,095	8,840	9,670	10,595	11,105	11,740
Total World	36,120	39,105	42,800	46,440	49,155	52,765	57,045	56,395	55,725	59,165

Worldwide Crude Oil Consumption
Thousands of barrels daily

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
United States	17,925	18,255	17,910	16,460	15,550	14,765	14,745	15,175	15,170	15,560
Canada	1,810	1,835	1,915	1,855	1,760	1,565	1,475	1,425	1,490	1,455
North America	**19,735**	**20,090**	**19,825**	**18,315**	**17,310**	**16,330**	**16,220**	**16,600**	**16,660**	**17,015**
Austria	225	240	250	245	225	210	205	200	200	210
Belgium & Luxembourg	565	585	560	540	500	475	435	420	430	480
Denmark	330	325	320	275	260	225	215	210	220	215
Finland	250	250	265	255	245	230	215	215	220	230
France	2,350	2,445	2,435	2,260	2,060	1,915	1,880	1,815	1,790	1,820
Greece	215	230	250	250	240	240	230	235	245	250
Iceland	10	10	15	10	10	10	10	10	10	10
Ireland	115	125	130	120	105	95	85	85	85	90
Italy	1,920	2,015	2,080	1,970	1,940	1,845	1,820	1,735	1,730	1,775
Netherlands	770	795	855	800	745	655	625	625	635	690
Norway	180	195	200	200	190	180	180	190	200	205
Portugal	150	150	165	170	180	195	195	195	180	200
Spain	930	955	1,015	1,070	1,040	990	1,010	955	925	930
Sweden	560	535	570	500	455	420	375	360	375	370
Switzerland	270	280	270	270	250	235	260	250	255	280
Turkey	340	315	300	300	315	335	330	370	345	390
United Kingdom	1,885	1,930	1,945	1,670	1,560	1,580	1,530	1,850	1,630	1,640
West Germany	2,855	2,960	3,050	2,725	2,465	2,355	2,340	2,330	2,390	2,525
Western Europe	**13,920**	**14,340**	**14,675**	**13,630**	**12,785**	**12,190**	**11,940**	**12,050**	**11,865**	**12,310**
Australia	655	655	665	630	625	610	590	610	590	600
New Zealand	95	95	90	90	85	85	80	85	80	85
Australasia	**750**	**750**	**755**	**720**	**710**	**695**	**670**	**695**	**670**	**685**
Japan	5,350	5,420	5,485	4,935	4,695	4,395	4,390	4,565	4,380	4,415
Total OECD	**39,755**	**40,600**	**40,740**	**37,600**	**35,500**	**33,610**	**33,220**	**33,910**	**33,575**	**34,425**
Cyprus/Gibraltar/Malta	25	25	30	30	30	30	30	35	35	40
Latin America	3,820	3,975	4,230	4,400	4,435	4,540	4,450	4,420	4,425	4,535
Middle East	1,565	1,620	1,495	1,625	1,780	2,050	2,285	2,155	2,150	2,150
Africa	1,205	1,290	1,360	1,450	1,525	1,610	1,630	1,630	1,700	1,690
South Asia	705	760	775	825	890	935	950	1,030	1,105	1,165
South East Asia	1,805	2,015	2,280	2,325	2,375	2,300	2,310	2,315	2,280	2,435
Other Non-Communist	**9,125**	**9,685**	**10,170**	**10,655**	**11,035**	**11,465**	**11,655**	**11,585**	**11,695**	**12,015**
Total Non-Communist	**48,880**	**50,285**	**50,910**	**48,255**	**46,535**	**45,075**	**44,875**	**45,495**	**45,270**	**46,440**
China	1,630	1,705	1,835	1,765	1,705	1,660	1,705	1,750	1,785	1,990
USSR	8,125	8,480	8,640	8,795	8,985	9,115	9,035	8,895	8,910	9,005
Others	2,595	2,675	2,755	2,730	2,625	2,575	2,490	2,490	2,530	2,485
Total Communist	**12,350**	**12,860**	**13,230**	**13,290**	**13,315**	**13,350**	**13,230**	**13,135**	**13,225**	**13,480**
Total World	**61,230**	**63,145**	**64,140**	**61,545**	**59,850**	**58,425**	**58,105**	**58,630**	**58,495**	**59,920**

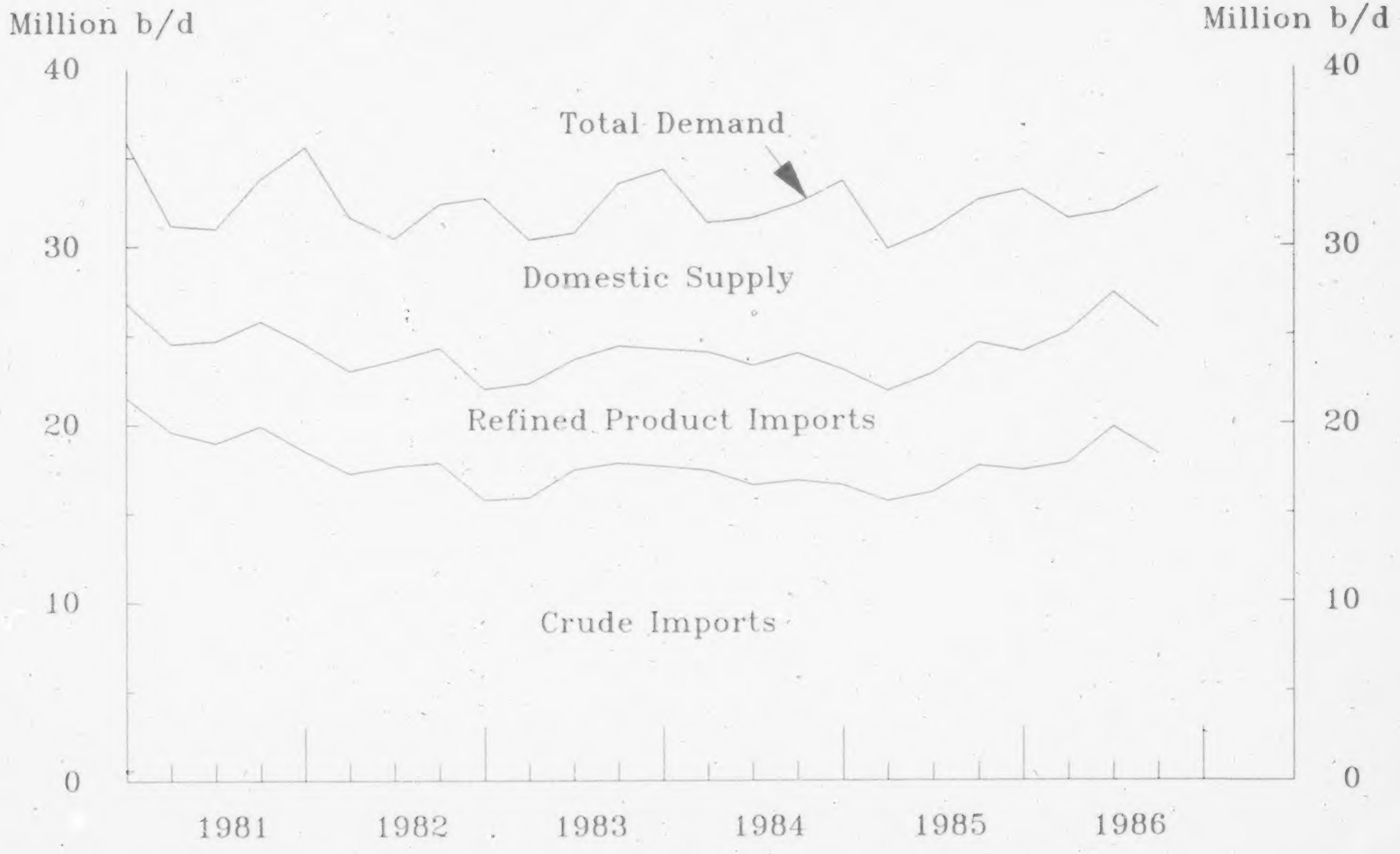
Data from Oil & Gas Journal Energy Database.
Source: British Petroleum

Non-Communist Consumption by Product
Thousands of barrels per day

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Gasolines	7,433.3	7,644.4	7,831.9	7,489.2	7,077.2	6,896.6	6,815.6	6,908.2	7,040.1	7,070.2
Middle distillates	4,229.2	4,596.1	4,769.2	4,750.7	4,271.9	4,093.2	3,834.2	3,883.6	4,130.1	4,208.2
Fuel Oil	2,701.1	2,958.7	2,907.6	2,725.9	2,441.4	2,030.2	1,666.7	1,442.8	1,389.6	1,235.4
Others	3,052.5	3,103.7	2,937.0	3,025.1	2,707.5	2,538.7	2,454.2	2,549.7	2,626.8	2,692.8
United States	**17,416.1**	**18,302.9**	**18,445.7**	**17,990.9**	**16,498.0**	**15,558.7**	**14,770.7**	**14,784.3**	**15,186.6**	**15,206.6**
Gasolines	686.7	691.4	733.9	782.5	745.5	724.6	657.5	632.0	627.4	641.3
Middle distillates	559.7	549.4	554.8	556.8	565.1	513.7	474.7	443.8	433.6	456.2
Fuel Oil	314.6	290.7	286.4	275.3	260.7	205.6	179.9	141.3	141.3	102.8
Others	244.0	270.6	231.3	260.7	251.5	260.7	212.9	212.9	212.9	238.6
Canada	**1,805.0**	**1,802.1**	**1,806.4**	**1,875.3**	**1,822.8**	**1,704.6**	**1,525.0**	**1,430.0**	**1,415.2**	**1,438.9**
Gasolines	3,051.3	3,014.2	3,317.5	3,340.6	3,174.0	3,035.1	3,055.9	3,130.0	3,136.9	3,139.2
Middle distillates	4,896.6	4,941.8	5,151.4	5,184.2	4,787.7	4,534.9	4,350.0	4,378.8	4,547.3	4,600.7
Fuel Oil	4,374.3	4,049.4	3,987.0	4,102.6	3,733.6	3,291.3	2,907.6	2,481.8	2,358.8	2,164.2
Others	1,593.3	1,663.1	1,630.0	1,736.5	1,675.9	1,602.5	1,575.0	1,619.0	1,672.2	1,600.7
Western Europe	**13,915.5**	**13,668.5**	**14,085.9**	**14,363.9**	**13,371.2**	**12,463.8**	**11,888.5**	**11,609.6**	**11,715.2**	**11,504.8**
Gasolines	1,011.5	1,034.7	1,058.0	1,069.6	974.6	921.4	893.6	914.5	939.9	944.5
Middle distillates	1,111.1	1,141.9	1,237.0	1,263.7	1,230.8	1,245.2	1,191.8	1,224.7	1,329.5	1,306.8
Fuel Oil	2,312.9	2,371.8	2,285.3	2,270.7	1,899.9	1,674.1	1,446.5	1,402.4	1,398.7	1,145.4
Others	615.0	639.6	592.9	618.6	591.1	592.9	594.7	581.9	607.6	671.8
Japan	**5,050.5**	**5,188.0**	**5,173.2**	**5,222.6**	**4,696.4**	**4,433.6**	**4,126.6**	**4,123.5**	**4,275.7**	**4,068.5**
Gasolines	282.4	291.7	296.3	303.3	298.6	303.3	310.2	303.3	312.5	312.0
Middle distillates	203.4	217.8	215.8	217.8	209.6	201.4	207.5	197.3	209.6	213.0
Fuel Oil	134.0	132.2	128.5	130.3	110.1	102.8	80.8	69.8	69.8	53.0
Others	89.9	93.6	89.9	88.1	88.1	86.3	80.8	84.4	89.9	73.0
Australia & New Zealand	**709.7**	**735.3**	**730.5**	**739.5**	**706.4**	**693.8**	**679.3**	**654.8**	**681.8**	**651.0**
Gasolines	1,683.1	1,745.6	1,842.8	2,032.6	2,141.4	2,222.5	2,308.1	2,310.4	2,294.2	2,430.8
Middle distillates	2,862.3	3,092.5	3,267.1	3,306.2	3,497.3	3,659.6	3,908.2	4,045.9	4,032.1	4,282.2
Fuel Oil	2,766.3	2,929.6	3,105.9	3,328.0	3,460.1	3,502.4	3,511.5	3,500.5	3,399.6	3,146.2
Others	1,092.2	1,158.3	1,229.9	1,250.1	1,314.3	1,367.5	1,431.8	1,475.8	1,518.1	1,479.5
Other Non-Communist	**8,403.9**	**8,926.0**	**9,445.7**	**9,916.9**	**10,413.1**	**10,752.0**	**11,159.6**	**11,332.6**	**11,264.0**	**11,338.7**
Gasolines	14,128.9	14,402.0	15,080.4	15,017.8	14,411.3	14,103.4	14,040.9	14,198.3	14,360.4	14,538.6
Middle distillates	13,876.0	14,554.1	15,195.2	15,279.5	14,562.3	14,247.9	13,966.4	14,174.0	14,708.2	15,067.8
Fuel Oil	12,590.5	12,719.0	12,700.6	12,832.8	11,905.8	10,806.3	9,793.0	9,038.6	8,732.0	7,847.3
Others	6,277.8	6,509.1	6,711.0	6,979.0	6,628.4	6,448.5	6,349.4	6,523.8	6,788.1	6,756.9
Total Non-Communist	**46,873.2**	**48,184.2**	**49,687.2**	**50,109.1**	**47,507.8**	**45,606.1**	**44,149.7**	**43,934.7**	**44,588.7**	**44,210.8**

Data from Oil & Gas Journal Energy Database.
Source: British Petroleum

Total OECD Imports & Total Demand



Source: IEA

Total Consumption of Refined Products
OECD by Country
Thousands of barrels per day

	1981				1982				1983			
	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Australia	566.4	590.8	598.1	563.1	565.4	610.9	550.3	559.3	520.2	554.9	562.8	561.7
Austria	227.4	208.0	218.9	229.3	227.3	204.5	207.1	229.4	194.0	206.4	217.6	242.0
Belgium	497.8	439.0	351.8	370.4	546.6	389.6	321.1	321.5	440.2	353.1	313.0	410.1
Canada	1,826.1	1,621.4	1,668.0	1,664.0	1,615.4	1,391.0	1,449.9	1,454.5	1,354.4	1,299.0	1,361.5	1,454.5
Denmark	296.7	211.7	184.1	285.8	287.7	209.9	194.5	240.3	240.3	206.8	193.0	241.7
Finland	269.5	193.2	195.8	258.2	231.7	203.3	205.4	226.9	200.1	174.1	209.7	214.8
France	2,292.8	1,749.2	1,478.3	2,156.5	2,014.2	1,744.1	1,532.0	1,868.0	1,960.2	1,718.2	1,455.9	1,916.9
Germany, West	2,532.1	2,162.6	2,334.8	2,455.4	2,436.0	2,245.1	2,262.7	2,227.3	2,294.2	2,239.9	2,138.2	2,316.9
Greece	240.1	201.4	220.8	240.1	239.2	207.8	220.7	252.7	223.8	196.1	219.4	251.3
Iceland	12.4	10.6	10.5	14.6	11.9	5.1	12.7	13.2	7.4	6.7	16.8	11.7
Ireland	109.0	114.1	110.6	109.2	104.9	93.9	88.7	99.1	90.5	85.1	79.8	90.5
Italy	2,190.9	1,658.7	1,592.4	1,962.6	2,028.5	1,630.0	1,563.2	1,841.0	1,894.1	1,565.6	1,561.4	1,929.8
Japan	5,260.8	4,205.7	4,237.9	4,873.0	5,401.5	4,159.2	3,845.9	4,350.9	4,685.5	3,704.1	3,978.9	4,526.6
Luxembourg	23.8	20.4	21.7	25.1	24.8	22.4	21.0	21.5	21.5	24.1	18.6	21.2
Netherlands	545.1	483.3	479.7	556.6	473.7	440.3	379.9	360.4	383.7	395.6	376.2	415.7
New Zealand	80.0	75.5	75.7	74.2	78.7	72.4	78.3	69.8	78.3	70.2	70.2	77.3
Norway	175.6	134.2	143.8	164.8	172.2	155.9	157.0	166.5	159.7	157.2	160.5	165.5
Portugal	177.4	178.4	173.0	177.7	178.8	186.7	189.1	184.3	193.1	184.1	176.4	182.0
Spain	1,108.6	952.3	871.2	1,004.2	1,050.7	965.1	977.8	1,071.8	1,032.9	965.2	925.1	1,104.7
Sweden	590.2	432.6	318.9	500.0	567.2	367.6	296.8	438.7	440.6	349.4	291.9	409.5
Switzerland	231.4	227.2	262.4	306.5	262.9	218.4	231.2	262.4	285.9	268.8	250.8	261.2
Turkey	285.9	283.6	334.9	331.0	324.0	311.3	335.0	359.4	324.6	338.3	348.8	376.6
United Kingdom	1,565.8	1,344.5	1,304.5	1,545.9	1,663.6	1,405.1	1,352.7	1,506.9	1,507.5	1,393.0	1,343.9	1,443.4
United States	14,705.4	13,694.5	13,798.0	13,914.5	15,046.6	14,389.9	13,970.4	14,220.6	14,158.4	13,898.2	14,466.9	14,892.4
Total OECD	35,811.1	31,192.9	30,985.6	33,782.4	35,553.1	31,629.4	30,443.2	32,346.2	32,691.0	30,354.3	30,737.3	33,518.1

Total Consumption of Refined Products
OECD by Country
Thousands of barrels per day

	1984				1985				1986			
	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Australia	548.5	598.1	578.0	574.8	549.9	592.0	540.3	577.7	534.7	595.5	576.4	579.9
Austria	200.7	206.0	205.8	226.9	223.2	177.9	210.1	217.3	199.8	192.7	231.8	242.1
Belgium	414.5	336.3	310.7	331.8	415.0	319.6	319.8	359.8	445.6	417.6	351.2	353.8
Canada	1,406.4	1,345.4	1,372.2	1,406.3	1,426.6	1,314.7	1,393.0	1,454.4	1,359.2	1,374.9	1,430.1	1,494.0
Denmark	256.4	196.6	184.2	233.5	282.4	197.1	189.4	235.9	261.4	192.3	205.6	223.9
Finland	214.3	175.5	208.2	188.9	240.0	180.9	186.4	211.9	212.4	194.3	247.5	223.6
France	2,001.7	1,577.1	1,405.3	1,723.6	1,927.1	1,474.9	1,445.9	1,726.2	1,887.2	1,586.5	1,566.0	1,714.6
Germany, West	2,268.9	2,235.7	2,321.6	2,194.4	2,238.2	2,276.4	2,519.9	2,268.4	2,472.4	2,791.4	2,375.7	2,144.6
Greece	234.7	201.9	219.6	249.7	243.3	198.2	236.9	242.7	217.5	194.2	212.5	245.6
Iceland	9.0	10.6	8.9	13.2	13.6	7.9	10.9	13.5	12.3	8.6	12.7	13.6
Ireland	82.4	78.8	80.6	82.6	86.4	75.4	79.4	98.3	93.9	101.1	106.6	107.3
Italy	1,892.4	1,437.8	1,474.3	1,685.1	1,912.2	1,382.7	1,490.1	1,848.0	1,773.6	1,423.7	1,509.5	1,918.3
Japan	5,173.9	3,877.8	4,037.5	4,438.1	4,756.7	3,579.8	3,880.9	4,392.5	4,748.9	3,646.2	3,789.5	4,654.2
Luxembourg	22.1	20.1	20.7	21.7	26.0	20.1	23.7	21.9	23.4	24.5	26.5	23.5
Netherlands	408.5	396.5	375.2	390.9	384.9	398.2	387.3	388.6	410.4	392.3	427.7	406.3
New Zealand	76.0	69.5	82.9	81.1	82.8	70.8	53.4	79.2	81.5	74.0	81.5	87.3
Norway	166.7	163.7	163.3	166.7	171.6	166.0	164.9	182.6	177.5	186.4	186.3	181.0
Portugal	181.7	177.8	184.1	175.7	157.1	145.4	175.7	190.8	170.0	177.9	188.8	182.5
Spain	1,000.0	924.3	821.7	735.8	808.2	741.0	732.6	841.1	760.7	720.1	705.3	783.2
Sweden	430.1	329.9	277.6	349.2	496.4	306.7	251.3	352.9	429.8	312.9	330.6	361.8
Switzerland	249.9	262.9	268.1	252.2	231.7	246.3	320.9	275.4	278.9	289.7	343.2	258.9
Turkey	329.2	326.2	352.4	366.7	337.4	330.1	420.0	385.8	353.9	353.7	421.3	414.4
United Kingdom	1,534.1	1,729.1	1,796.5	2,094.3	2,062.1	1,330.1	1,354.5	1,425.2	1,544.9	1,497.3	1,524.8	1,509.1
United States	15,194.2	14,665.9	14,839.0	14,427.9	14,592.8	14,339.7	14,544.6	14,805.4	14,706.2	14,807.3	15,106.9	15,169.8
Total OECD	**34,296.1**	**31,343.5**	**31,588.2**	**32,410.9**	**33,665.5**	**29,871.7**	**30,931.8**	**32,595.1**	**33,156.0**	**31,555.1**	**31,957.9**	**33,293.2**

Note: Data are converted from IEA reported figures in thousands of tonnes. U.S. figures do not match those reported elsewhere in this publication due to data conversion, difference in source and timing of data reporting.

Data from Oil & Gas Journal Energy Databas.
Source: International Energy Agency

Total Consumption of Refined Products by Sector
Total OECD
Thousands of barrels per day

	Industrial	Transportation	Electric Utilities	Energy (Producing)	Other Sectors (Restd. & Comm.)	Total Inland Consumption
1975	8,807.5	13,894.1	5,203.9	3.7	7,537.6	35,446.7
1976	10,100.0	14,674.2	5,397.0	34.0	7,431.7	37,635.2
1977	10,656.2	15,479.6	5,573.4	33.8	7,368.7	39,110.5
1978	10,608.9	15,905.9	5,742.5	42.9	7,458.8	39,759.1
1979	11,128.6	15,995.0	5,400.9	43.7	7,033.0	39,601.1
1980	9,694.5	15,554.6	4,739.3	42.6	6,327.5	36,357.7
1981	8,713.7	15,460.6	4,147.2	91.5	5,808.1	34,221.1
1982	7,970.8	15,391.3	3,543.2	96.0	5,460.7	32,462.0
1983	7,661.1	15,548.5	3,250.4	103.7	5,284.3	31,848.0
1984	7,673.2	16,028.1	3,251.0	103.7	5,468.7	32,524.6
1985	7,465.0	16,248.7	2,654.7	102.1	5,475.6	31,946.0

Data from Oil & Gas Journal Energy Database.
Source: International Energy Agency

Total Gasoline Consumption
Thousands of barrels per day

	Canada	France	Italy	Japan	United Kingdom	United States	West Germany	Other OECD	Total OECD
1981									
1st Qtr	635.9	344.6	263.4	589.8	419.9	6,198.5	461.0	944.8	**9,857.9**
2nd Qtr.	696.0	405.0	288.0	584.4	444.7	6,680.4	487.4	1,041.2	**10,628.0**
3rd Qtr.	750.0	444.8	312.0	618.0	452.4	6,831.7	488.2	1,065.6	**10,962.7**
4th Qtr	646.8	384.4	284.4	633.9	429.5	6,487.8	509.8	992.5	**10,369.2**
1982									
1st Qtr	576.6	344.8	265.5	594.7	416.7	6,273.5	517.8	957.9	**9,947.5**
2nd Qtr	616.4	413.5	300.0	594.9	457.0	6,949.2	574.4	1,058.7	**10,964.1**
3rd Qtr.	669.2	447.1	307.8	615.5	467.3	6,766.8	564.6	1,092.1	**10,930.4**
4th Qtr.	599.9	379.2	274.0	626.6	454.1	6,632.9	559.6	1,024.4	**10,550.7**
1983									
1st Qtr	545.5	357.7	257.9	584.2	437.5	6,367.9	528.1	971.8	**10,050.7**
2nd Qtr.	603.4	400.8	282.6	595.1	460.4	6,763.8	571.2	1,033.1	**10,710.3**
3rd Qtr.	656.2	432.0	305.6	631.6	474.8	6,911.8	581.0	1,102.2	**11,095.2**
4th Qtr.	597.9	368.6	273.9	639.8	452.4	6,821.4	571.3	1,041.0	**10,766.2**
1984									
1st Qtr	539.9	366.2	256.1	600.9	442.8	6,466.5	532.1	987.5	**10,192.0**
2nd Qtr	598.0	412.7	285.7	596.8	480.1	7,034.9	593.2	1,074.5	**11,076.0**
3rd Qtr.	633.7	432.8	296.3	639.5	483.4	6,995.0	585.0	1,119.1	**11,184.8**
4th Qtr.	589.2	374.3	271.5	634.5	475.2	6,727.5	588.0	1,059.3	**10,719.3**
1985									
1st Qtr	534.5	241.4	259.3	598.4	440.0	6,460.9	520.7	1,084.6	**10,139.7**
2nd Qtr.	607.7	406.3	285.3	604.5	480.8	6,970.6	589.4	1,076.1	**11,020.7**
3rd Qtr.	646.3	427.0	302.9	656.6	495.2	6,931.1	578.9	1,127.2	**11,165.2**
4th Qtr.	586.0	369.3	279.7	645.4	484.4	6,751.0	567.9	1,058.9	**10,742.6**
1986									
1st Qtr	505.2	351.8	255.4	608.6	555.0	6,535.2	531.6	915.7	**10,258.5**
2nd Qtr.	603.0	405.5	295.3	620.3	512.0	7,092.7	604.9	1,122.1	**11,255.8**
3rd Qtr.	637.2	435.7	305.5	671.8	517.4	7,192.9	612.7	1,205.6	**11,578.8**
4th Qtr.	579.2	386.0	278.0	661.2	512.2	6,973.3	603.1	1,129.5	**11,122.6**

Note: Data are converted from IEA figures in thousands of tonnes. U.S. figures differ from those shown elsewhere in this publication due to data conversion, difference in source and timing of data reporting.

Data from Oil & Gas Journal Energy Database.
Source: International Energy Agency

Total Gas Oil/Diesel Oil Consumption
Thousands of barrels per day

	Canada	France	Italy	Japan	United Kingdom	United States	West Germany	Other OECD	Total OECD
1981									
1st Qtr.	586.1	527.0	618.4	824.6	397.9	3,172.6	1,148.1	2,119.7	**9,394.3**
2nd Qtr.	404.7	609.0	354.4	690.2	301.6	2,238.7	867.4	1,365.8	**6,831.7**
3rd Qtr.	369.4	655.0	382.8	661.1	278.7	2,331.7	1,018.8	977.8	**6,675.2**
4th Qtr.	478.2	559.0	548.6	773.9	389.5	2,805.8	1,053.5	1,835.9	**8,444.4**
1982									
1st Qtr.	572.5	529.0	592.6	797.1	415.4	2,991.1	1,111.5	2,008.3	**9,017.5**
2nd Qtr.	358.3	600.0	394.2	676.1	307.5	2,399.3	873.1	1,299.8	**6,908.2**
3rd Qtr.	341.2	674.0	389.2	645.7	285.2	2,033.6	964.8	1,054.2	**6,387.9**
4th Qtr.	420.9	555.0	538.6	744.8	363.0	2,408.2	937.9	1,615.8	**7,584.1**
1983									
1st Qtr.	448.6	529.0	553.4	788.4	393.7	2,660.7	1,061.1	1,783.0	**8,218.0**
2nd Qtr.	351.7	599.0	383.2	671.3	314.2	2,496.4	972.7	1,367.1	**7,155.5**
3rd Qtr.	326.5	665.0	418.7	674.2	294.0	2,348.8	866.7	1,046.7	**6,640.5**
4th Qtr.	447.1	559.0	604.6	793.5	360.3	2,853.9	1,010.7	1,802.7	**8,431.8**
1984									
1st Qtr.	486.3	518.0	617.8	882.7	399.5	2,999.7	1,020.5	1,940.4	**8,864.9**
2nd Qtr.	365.2	611.0	412.7	708.3	317.4	2,537.5	959.6	1,315.9	**7,227.6**
3rd Qtr.	321.5	693.0	424.1	706.0	308.2	2,466.0	1,042.2	1,083.3	**7,044.4**
4th Qtr.	427.3	571.0	568.7	807.2	381.7	2,731.7	932.2	1,625.7	**8,045.5**
1985									
1st Qtr.	473.1	570.0	686.9	866.3	432.2	3,086.1	1,010.3	1,986.6	**9,111.5**
2nd Qtr.	358.8	667.0	399.0	717.5	317.9	2,550.3	1,025.4	1,167.6	**7,203.4**
3rd Qtr.	335.5	775.0	459.1	712.2	313.8	2,396.4	1,224.8	1,110.6	**7,327.3**
4th Qtr.	436.3	627.0	636.7	847.9	361.3	2,790.5	1,050.6	1,703.4	**8,453.8**
1986									
1st Qtr.	444.7	612.0	602.1	896.9	417.7	3,001.7	1,274.5	1,927.8	**9,177.4**
2nd Qtr.	351.9	733.0	433.3	742.9	335.4	2,548.1	1,417.0	1,361.6	**7,923.2**
3rd Qtr.	335.5	824.0	412.5	748.3	327.1	2,359.5	1,045.9	1,287.5	**7,340.3**
4th Qtr.	423.3	651.0	616.1	896.7	357.3	2,807.6	870.6	1,658.0	**8,280.5**

Note: Data are converted from IEA data in thousands of tonnes. U.S. figures differ from those reported elsewhere in this publication due to data conversion, difference in source and timing of data reporting.

Data from Oil & Gas Journal Energy Database
Source: International Energy Agency

Total Heavy Fuel Oil Consumption
Thousands of barrels per day

	Canada	France	Italy	Japan	United Kingdom	United States	West Germany	Other OECD	Total OECD
1981									
1st Qtr.	246.7	439.4	842.3	1,344.5	351.0	2,078.7	345.5	1,613.5	**7,261.6**
2nd Qtr.	220.8	237.5	620.5	1,013.9	242.1	1,453.5	241.4	1,186.4	**5,216.0**
3rd Qtr.	186.1	234.8	529.3	1,150.4	217.4	1,408.2	257.1	1,085.3	**5,068.6**
4th Qtr.	243.6	439.5	695.7	1,144.4	329.2	1,516.2	322.7	1,371.5	**6,062.6**
1982									
1st Qtr.	188.6	344.8	746.8	1,197.0	407.0	1,756.0	310.7	1,398.9	**6,349.8**
2nd Qtr.	132.5	246.2	560.0	898.9	257.9	1,299.4	251.2	1,109.2	**4,805.2**
3rd Qtr.	150.2	214.3	494.8	984.5	222.6	1,223.0	224.4	946.4	**4,460.1**
4th Qtr.	175.9	306.9	615.8	996.0	296.0	1,314.9	249.6	1,149.1	**5,104.2**
1983									
1st Qtr.	152.0	279.4	696.7	1,036.1	264.6	1,411.2	248.9	1,159.8	**5,248.6**
2nd Qtr.	119.0	195.9	525.8	808.1	215.7	1,060.6	190.7	868.6	**3,984.4**
3rd Qtr.	117.4	126.7	478.3	978.7	190.4	1,095.2	184.5	793.1	**3,964.1**
4th Qtr.	142.8	265.0	636.0	960.2	244.0	1,163.3	217.3	1,031.4	**4,660.0**
1984									
1st Qtr.	143.9	257.5	644.0	1,103.8	258.6	1,516.6	219.8	1,049.3	**5,193.5**
2nd Qtr.	119.1	150.6	406.3	832.8	485.5	1,063.8	183.9	817.3	**4,059.2**
3rd Qtr.	106.9	111.3	437.0	952.2	537.9	951.0	179.4	724.0	**3,999.6**
4th Qtr.	127.9	192.1	458.6	838.5	742.7	900.9	178.7	763.1	**4,202.5**
1985									
1st Qtr.	125.1	202.5	586.7	923.4	686.9	1,060.1	222.2	950.0	**4,756.7**
2nd Qtr.	91.2	120.8	340.8	661.8	167.4	829.6	164.9	638.8	**3,015.2**
3rd Qtr.	70.1	82.6	382.1	786.1	153.4	879.0	166.4	609.1	**3,128.7**
4th Qtr.	122.1	165.3	542.1	742.5	187.8	988.6	171.4	771.5	**3,691.2**
1986									
1st Qtr.	100.6	172.6	546.6	775.4	234.1	1,120.7	194.8	824.9	**3,969.7**
2nd Qtr.	102.9	101.1	342.7	592.0	224.1	1,066.6	212.5	633.7	**3,275.6**
3rd Qtr.	77.5	81.5	408.9	711.0	219.5	1,195.0	194.1	640.9	**3,528.4**
4th Qtr.	118.3	124.0	568.3	836.7	224.0	1,139.9	193.4	758.6	**3,963.1**

Note: Data are converted from IEA figures in thousands of tonnes. U.S. figures differ from those elsewhere in this publication due to data conversion, difference in source and timing of data reporting.

Data from Oil & Gas Journal Energy Database.
Source: International Energy Agency

Non-Communist World Crude Oil Supply and Demand
Millions of barrels per day

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Consumption														
North America	19.1	18.4	18.1	19.5	20.5	21.1	20.6	19.1	18.1	17.2	17.0	17.3	17.3	17.7
Europe	14.9	13.9	13.5	14.5	14.5	13.9	14.4	13.4	12.5	12.1	11.8	11.8	11.6	12.0
Pacific	6.5	6.5	6.0	6.2	6.4	6.5	6.6	6.2	5.9	5.3	5.1	5.3	5.1	5.1
Total OECD	**40.5**	**38.8**	**37.6**	**40.2**	**41.4**	**41.5**	**41.6**	**38.7**	**36.5**	**34.6**	**33.9**	**34.4**	**34.0**	**34.8**
Non-OECD	8.3	8.3	8.3	8.7	8.9	9.4	10.8	11.0	11.2	11.4	11.3	11.5	11.6	11.8
Total Consumption	**48.8**	**47.1**	**45.9**	**48.9**	**50.3**	**50.9**	**52.4**	**49.7**	**47.7**	**46.0**	**45.2**	**45.9**	**45.6**	**46.6**
Supply														
OECD *	13.9	13.3	12.7	12.7	13.4	14.1	14.7	14.8	15.0	15.5	16.0	16.7	17.1	16.8
Developing Countries *	2.7	2.8	2.9	3.2	3.7	4.5	5.3	5.8	6.4	7.2	7.5	8.0	8.5	8.5
Communist Net Exports	0.7	0.8	0.9	0.9	1.0	1.1	1.1	1.2	1.1	1.4	1.6	1.8	1.6	1.9
Processing Gains	0.5	0.5	0.5	0.7	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Non-OPEC	**17.8**	**17.4**	**17.0**	**17.5**	**18.9**	**20.7**	**22.1**	**22.8**	**23.5**	**25.1**	**26.1**	**27.5**	**28.2**	**28.2**
OPEC Crude Production	30.9	30.7	27.1	30.4	31.1	29.9	30.7	26.6	22.4	18.6	17.3	17.2	15.9	17.9
OPEC NGL Production	0.4	0.4	0.5	0.6	0.7	0.7	0.9	1.0	1.1	1.2	1.2	1.3	1.3	1.4
Total OPEC	**31.3**	**31.1**	**27.6**	**31.0**	**31.8**	**30.6**	**31.6**	**27.6**	**23.5**	**19.8**	**18.5**	**18.5**	**17.2**	**19.3**
Total Supply	**49.1**	**48.5**	**44.6**	**48.5**	**50.7**	**51.3**	**53.7**	**50.4**	**47.0**	**44.9**	**44.6**	**46.0**	**45.4**	**47.5**
Supply/Demand Balance														
Private Stock Change OECD	0.3	1.0	0.0	0.1	0.7	-0.6	0.6	0.4	-0.6	-0.7	-0.7	-0.1	-0.4	0.3
Government Stock Change	0.0	0.0	0.0	0.0	0.1	0.3	0.1	0.1	0.4	0.2	0.2	0.3	0.1	0.1
Balancing Item	0.0	0.4	-1.3	-0.5	-1.2	0.7	0.6	0.2	-0.5	-0.6	-0.1	-0.1	0.1	0.5
Total Balance	**0.3**	**1.4**	**-1.3**	**-0.4**	**-0.4**	**0.4**	**1.3**	**0.7**	**-0.7**	**-1.1**	**-0.6**	**0.1**	**-0.2**	**0.9**

* Total Liquids

Data from Oil & Gas Journal Energy Database
Source: International Energy Agency

Natural Gas

Worldwide production and consumption of natural gas has been increasing steadily. More countries throughout the world are recognizing the value of this resource and are adapting their economies to use natural gas. And where it can not be efficiently used currently, conservation programs are being established to save natural gas for future consumption.

Between 1976 and 1986, worldwide production of natural gas increased 32.7% from 46.3 trillion cubic feet (tcf) to 61.5 tcf. Over the same ten year span worldwide natural gas consumption moved up 31.5%.

Although natural gas is abundant, international trade in natural gas has been slow to develop. Transportation is the main reason. The vast reserves of natural gas tend to be located in areas of the world far removed from the point of consumption. And transportation of natural gas over long distances is more costly and not as convenient as for crude oil. But regional distribution networks are developing throughout the world and trade is increasing. The technology is in place for the transportation of liquified natural gas (LNG) in larger quantities when the economics of doing so improve.

The pattern of natural gas consumption in the U.S. has been far more volatile than in the rest of the world. Consumption in the U.S. has been cut back in recent years due to energy conservation and higher prices. Natural gas consumption in the U.S. was 22 tcf in 1973. After a slight decline, consumption remained near 20 tcf in the 1975-1981 period. Consumption then fell sharply to 16.8 tcf in 1983. Demand increased to over 17 tcf in 1984 and 1985 but fell back to 16 tcf in 1986.

The price of natural gas increased sharply between 1973 and 1984. The average wellhead price moved up from $0.22 per thousand cubic feet (mcf) in 1973 to $2.66/mcf in 1984 -- an increase of 1109%. The increase in the price resulted in increased competition from other fuels -- petroleum and coal in particular. The price of natural gas has fallen in the last two years but it has been somewhat slow to respond to competitive pressures. Continuing government price controls and transportation regulations have also contributed to natural gas losing market share in many areas.

This chapter of the Energy Statistics Sourcebook provides all of the key data for analysis of the natural gas industry. It contains detailed data on the volume and location of production throughout the U.S. It also contains data on imports into the U.S. and enables analysis of their impact on domestic production. Detailed information is also provided on natural gas consumption, the data necessary for formulating a scenario on future expectations for this industry.

Natural Gas

Natural Gas Production & Field Usage, Total U.S., Annual, 270
Marketed Natural Gas Production, Total U.S., Annual, 272
Marketed Natural Gas Production, Total U.S., Monthly, 273
Natural Gas Production, By State, Annual, 275
Imports & Exports of Natural Gas, Total U.S, Annual, 278
Imports & Exports of Natural Gas, By Country, Total U.S, Annual, 279
Natural Gas Imports, Total U.S., Monthly, 280
Natural Gas Exports, Total U.S., Monthly, 281
Natural Gas in Underground Storage, Total U.S, Monthly, 282
Consumption of Natural Gas, By Sector, Annual, 284
Consumption of Natural Gas, Total U.S., Monthly, 289
Consumption of Natural Gas, By Sector, Monthly, 290
Natural Gas Consumption, By State, Annual, 294
Worldwide Natural Gas Production, By Country, Annual, 296
Natural Gas Production, Non-Communist & World, Monthly, 298
Worldwide Natural Gas Consumption, By Country & Region, Annual, 299

Total U.S. Natural Gas Production and Field Usage
Trillion cubic feet

	------Gross Production-------			Gas Used in		
	From Gas Wells	From Oil Wells	From All Wells	Reservoir Repressuring	Gas Vented or Flared	Marketed Production
1935	1.49	1.00	2.50	NA	0.48	1.96
1936	1.48	1.16	2.64	NA	0.39	2.23
1937	1.61	1.42	3.03	NA	0.43	2.47
1938	1.57	1.49	3.06	0.10	0.65	2.37
1939	1.83	1.50	3.33	0.17	0.68	2.64
1940	2.10	1.60	3.69	0.36	0.66	2.73
1941	2.49	1.61	4.10	0.64	0.63	2.89
1942	2.89	1.57	4.45	0.75	0.63	3.15
1943	3.23	1.93	5.16	0.82	0.90	3.52
1944	3.65	1.96	5.61	0.88	1.01	3.82
1945	3.89	2.01	5.90	1.06	0.90	4.04
1946	3.81	2.38	6.19	1.04	1.10	4.15
1947	3.77	2.96	6.73	1.08	1.04	4.58
1948	4.59	2.59	7.18	1.22	0.81	5.15
1949	4.99	2.56	7.55	1.27	0.85	5.42
1950	5.60	2.88	8.48	1.40	0.80	6.28
1951	6.48	3.21	9.69	1.44	0.79	7.46
1952	6.84	3.43	10.27	1.41	0.85	8.01
1953	7.10	3.55	10.65	1.44	0.81	8.40
1954	7.47	3.52	10.98	1.52	0.72	8.74
1955	7.84	3.88	11.72	1.54	0.77	9.41
1956	8.31	4.07	12.37	1.43	0.86	10.08
1957	8.72	4.19	12.91	1.42	0.81	10.68
1958	9.15	3.99	13.15	1.48	0.63	11.03
1959	10.10	4.13	14.23	1.61	0.57	12.05
1960	10.85	4.23	15.09	1.75	0.56	12.77
1961	11.20	4.27	15.46	1.68	0.52	13.25
1962	11.70	4.34	16.04	1.74	0.43	13.88
1963	12.61	4.37	16.97	1.84	0.38	14.75
1964	13.11	4.43	17.54	1.65	0.34	15.55
1965	13.52	4.44	17.96	1.60	0.32	16.04
1966	13.89	5.14	19.03	1.45	0.38	17.21
1967	15.35	4.91	20.25	1.59	0.49	18.17
1968	16.54	4.79	21.32	1.49	0.52	19.32
1969	17.49	5.19	22.68	1.46	0.53	20.70

Total U.S. Natural Gas Production and Field Usage
Trillion cubic feet

	------Gross Production-------			Gas Used in Reservoir Repressuring	Gas Vented or Flared	Marketed Production
	From Gas Wells	From Oil Wells	From All Wells			
1970	18.59	5.19	23.79	1.38	0.49	21.92
1971	18.93	5.16	24.09	1.31	0.28	22.49
1972	19.04	4.97	24.02	1.24	0.25	22.53
1973	19.37	4.70	24.07	1.17	0.25	22.65
1974	18.67	4.18	22.85	1.08	0.17	21.60
1975	17.38	3.72	21.10	0.86	0.13	20.11
1976	17.19	3.75	20.94	0.86	0.13	19.95
1977	17.42	3.68	21.10	0.93	0.14	20.03
1978	17.39	3.91	21.31	1.18	0.15	19.97
1979	18.03	3.85	21.88	1.25	0.17	20.47
1980	17.57	4.30	21.87	1.37	0.13	20.18
1981	17.34	4.25	21.59	1.31	0.10	19.96
1982	15.80	4.41	20.21	1.39	0.09	18.52
1983	14.15	4.45	18.60	1.46	0.09	16.82
1984	15.51	4.69	20.19	1.63	0.11	18.23
1985	14.53	5.00	19.53	1.92	0.09	17.22
1986	NA	NA	18.92	1.79	0.09	16.81

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Marketed Production of Natural Gas
Total U.S.

Year	Mmcf	Mmcfd	Year	Mmcf	Mmcfd
1930	1,978,911	5,421.7	1959	12,046,120	33,003.1
1931	1,721,902	4,717.5	1960	12,771,040	34,893.6
1932	1,593,798	4,354.6	1961	13,254,030	36,312.4
1933	1,596,673	4,374.4	1962	13,876,620	38,018.1
1934	1,815,796	4,974.8	1963	14,746,660	40,401.8
1935	1,958,963	5,367.0	1964	15,546,590	42,477.0
1936	2,225,477	6,080.5	1965	16,039,750	43,944.5
1937	2,473,483	6,776.7	1966	17,206,630	47,141.5
1938	2,368,201	6,488.2	1967	18,171,320	49,784.4
1939	2,638,383	7,228.4	1968	19,322,400	52,793.4
1940	2,733,819	7,469.5	1969	20,698,240	56,707.5
1941	2,893,525	7,927.5	1970	21,920,640	60,056.5
1942	3,145,694	8,618.3	1971	22,493,010	61,624.7
1943	3,515,531	9,631.6	1972	22,531,700	61,562.0
1944	3,815,024	10,423.6	1973	22,647,550	62,048.1
1945	4,042,002	11,074.0	1974	21,600,520	59,179.5
1946	4,152,762	11,377.4	1975	20,108,660	55,092.2
1947	4,582,173	12,553.9	1976	19,952,440	54,514.9
1948	5,148,020	14,065.6	1977	20,025,460	54,864.3
1949	5,419,736	14,848.6	1978	19,974,030	54,723.4
1950	6,282,060	17,211.1	1979	20,471,260	56,085.6
1951	7,457,359	20,431.1	1980	20,179,720	55,135.8
1952	8,013,457	21,894.7	1981	19,955,820	54,673.5
1953	8,396,916	23,005.2	1982	18,519,670	50,738.8
1954	8,742,546	23,952.2	1983	16,822,140	46,088.1
1955	9,405,351	25,768.1	1984	18,229,640	49,807.8
1956	10,081,920	27,546.2	1985	17,197,999	47,117.8
1957	10,680,260	29,261.0	1986	16,808,753	46,051.4
1958	11,030,250	30,219.9			

Data from Oil & Gas Energy Database
Source: Bureau of Mines, Energy Information Administration

Marketed Production of Natural Gas
Total U.S.
Millions of cubic feet per day

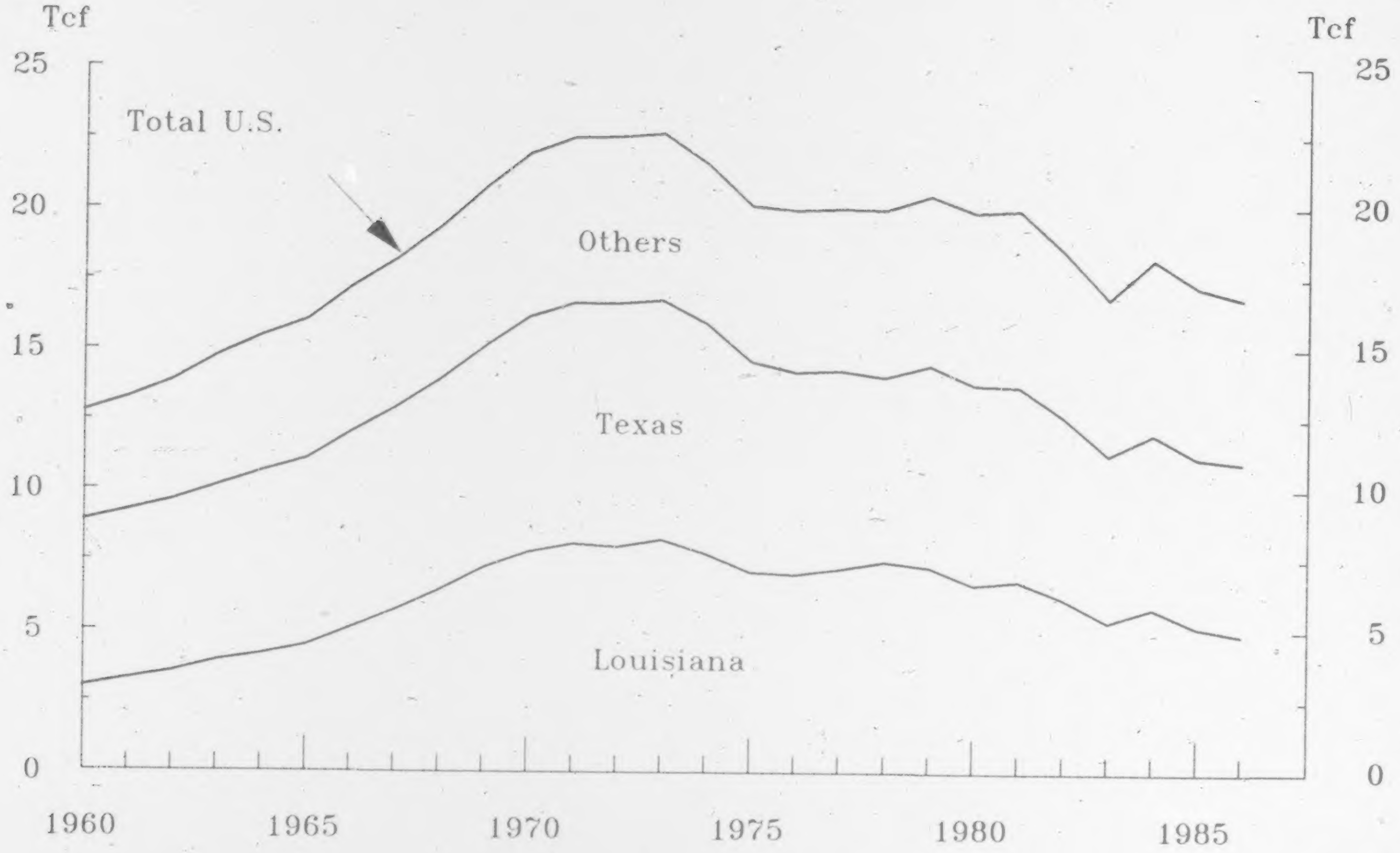
	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1973	64,322.6	65,035.7	62,967.7	62,133.3	61,225.8	61,300.0	60,645.2	61,161.3	61,333.3	60,483.9	62,100.0	62,129.0	**62,069.8**
1974	62,193.5	62,821.4	60,838.7	59,766.7	59,548.4	58,000.0	58,645.2	57,741.9	58,500.0	57,000.0	57,633.3	57,741.9	**59,202.6**
1975	57,354.8	58,571.4	56,129.0	55,900.0	54,483.9	54,466.7	54,096.8	54,096.8	53,433.3	53,096.8	53,933.3	55,806.5	**55,114.1**
1976	56,483.9	56,793.1	55,290.3	54,100.0	53,967.7	54,666.7	54,064.5	52,774.2	52,166.7	52,871.0	54,500.0	56,548.4	**54,518.9**
1977	56,129.0	59,785.7	56,483.9	54,800.0	54,580.6	54,933.3	54,000.0	53,064.5	53,266.7	52,516.1	53,533.3	55,645.2	**54,894.9**
1978	56,225.8	58,892.9	56,387.1	55,600.0	53,677.4	54,100.0	54,612.9	53,483.9	52,533.3	52,741.9	53,566.7	55,161.3	**54,748.6**
1979	57,129.0	59,142.9	56,612.9	56,400.0	55,354.8	54,766.7	53,612.9	54,483.9	54,500.0	55,000.0	57,466.7	58,806.5	**56,106.3**
1980	59,290.3	59,482.8	59,580.6	56,200.0	55,225.8	53,400.0	52,677.4	51,354.8	53,200.0	53,645.2	55,633.3	58,580.6	**55,689.2**
1981	57,161.3	56,821.4	56,548.4	56,400.0	55,354.8	55,100.0	54,290.3	55,612.9	53,166.7	53,548.4	53,333.3	56,064.5	**55,283.5**
1982	55,741.9	56,571.4	54,032.3	52,700.0	50,064.5	50,166.7	49,225.8	48,129.0	47,700.0	47,096.8	49,200.0	48,709.7	**50,778.2**
1983	49,548.4	48,321.4	45,193.5	44,100.0	42,838.7	42,266.7	43,483.9	45,161.3	45,466.7	46,451.6	48,566.7	51,774.2	**46,097.8**
1984	55,590.8	51,619.4	49,682.3	50,218.9	48,483.6	48,525.9	48,686.5	47,975.2	47,242.4	48,076.2	49,550.2	52,039.3	**49,807.6**
1985	52,759.9	53,054.2	47,860.6	46,575.7	44,621.2	44,517.0	44,139.0	44,043.6	44,614.9	44,965.7	46,605.6	52,032.1	**47,149.1**
1986	52,066.5	50,032.8	47,972.9	44,557.0	43,924.2	43,393.9	43,347.5	43,400.1	42,643.5	43,690.9	47,857.3	49,929.6	**46,068.0**

Marketed Production of Natural Gas
Total U.S.
Millions of cubic feet

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1973	1,994,000	1,821,000	1,952,000	1,864,000	1,898,000	1,839,000	1,880,000	1,896,000	1,840,000	1,875,000	1,863,000	1,926,000	**22,648,000**
1974	1,928,000	1,759,000	1,886,000	1,793,000	1,846,000	1,740,000	1,818,000	1,790,000	1,755,000	1,767,000	1,729,000	1,790,000	**21,601,000**
1975	1,778,000	1,640,000	1,740,000	1,677,000	1,689,000	1,634,000	1,677,000	1,677,000	1,603,000	1,646,000	1,618,000	1,730,000	**20,109,000**
1976	1,751,000	1,647,000	1,714,000	1,623,000	1,673,000	1,640,000	1,676,000	1,636,000	1,565,000	1,639,000	1,635,000	1,753,000	**19,952,000**
1977	1,740,000	1,674,000	1,751,000	1,644,000	1,692,000	1,648,000	1,674,000	1,645,000	1,598,000	1,628,000	1,606,000	1,725,000	**20,025,000**
1978	1,743,000	1,649,000	1,748,000	1,668,000	1,664,000	1,623,000	1,693,000	1,658,000	1,576,000	1,635,000	1,607,000	1,710,000	**19,974,000**
1979	1,771,000	1,656,000	1,755,000	1,692,000	1,716,000	1,643,000	1,662,000	1,689,000	1,635,000	1,705,000	1,724,000	1,823,000	**20,471,000**
1980	1,838,000	1,725,000	1,847,000	1,686,000	1,712,000	1,602,000	1,633,000	1,592,000	1,596,000	1,663,000	1,669,000	1,816,000	**20,379,000**
1981	1,772,000	1,591,000	1,753,000	1,692,000	1,716,000	1,653,000	1,683,000	1,724,000	1,595,000	1,660,000	1,600,000	1,738,000	**20,177,000**
1982	1,728,000	1,584,000	1,675,000	1,581,000	1,552,000	1,505,000	1,526,000	1,492,000	1,431,000	1,460,000	1,476,000	1,510,000	**18,520,000**
1983	1,536,000	1,353,000	1,401,000	1,323,000	1,328,000	1,268,000	1,348,000	1,400,000	1,304,000	1,440,000	1,457,000	1,605,000	**16,823,000**
1984	1,723,316	1,496,962	1,540,151	1,506,568	1,502,993	1,455,778	1,509,282	1,487,231	1,417,272	1,490,363	1,486,505	1,613,217	**18,229,638**
1985	1,635,558	1,485,517	1,483,680	1,397,270	1,383,257	1,335,509	1,368,309	1,365,351	1,338,448	1,393,938	1,398,167	1,612,995	**17,197,999**
1986	1,614,060	1,400,919	1,487,161	1,336,709	1,361,649	1,301,817	1,343,773	1,345,404	1,279,305	1,354,418	1,435,720	1,547,818	**16,808,753**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Natural Gas Production



Source: BOM, EIA

Natural Gas Production by State
Million cubic feet

	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
Alabama	57	56	128	177	165	203	252	248	230	180
Alaska	246	631	2,184	4,498	6,238	7,255	11,267	14,438	17,343	50,864
Arizona	NA	NA	230	1,334	2,014	3,106	3,161	1,255	881	1,136
Arkansas	55,451	59,547	66,213	76,101	75,753	82,831	105,174	116,522	156,627	169,257
California	517,535	556,241	564,220	646,486	660,444	660,384	689,607	681,080	714,893	677,689
Colorado	107,404	108,142	101,826	105,705	113,691	126,381	136,667	116,857	121,424	118,754
Florida	30	29	29	35	40	107	212	123	108	50
Illinois	11,666	9,970	10,650	9,459	7,824	7,396	7,230	5,144	4,380	3,800
Indiana	342	382	284	286	199	239	215	198	234	171
Kansas	634,410	649,083	694,352	732,946	764,073	793,379	847,495	871,971	835,555	883,156
Kentucky	75,329	70,937	70,241	74,634	76,940	78,976	76,536	89,168	89,024	81,304
Louisiana	2,988,414	3,271,857	3,525,456	3,928,427	4,152,731	4,466,786	5,081,435	5,716,857	6,416,015	7,227,826
Maryland	4,065	3,578	2,472	1,633	1,373	408	696	621	864	978
Michigan	20,790	27,697	28,987	32,850	31,388	34,558	34,120	33,589	40,480	36,163
Mississippi	172,478	172,543	170,271	176,807	180,428	166,825	156,652	139,497	135,051	131,234
Missouri	75	90	92	100	107	84	NA	121	14	126
Montana	33,418	33,901	29,955	30,026	25,051	28,105	30,685	25,866	19,313	41,229
Nebraska	15,258	15,743	14,880	18,051	11,094	10,720	10,196	8,453	8,129	6,989
New Mexico	798,928	789,662	804,612	808,377	873,947	937,205	998,076	1,067,510	1,164,182	1,138,133
New York	4,990	5,742	4,262	3,962	3,108	3,340	2,699	3,837	4,632	4,861
North Dakota	19,483	20,100	25,155	32,798	34,512	35,652	46,585	40,462	41,023	33,587
Ohio	36,074	36,423	36,747	36,817	37,106	35,684	43,133	41,315	42,673	49,793
Oklahoma	824,266	892,697	1,060,717	1,233,883	1,316,201	1,320,995	1,351,225	1,412,952	1,390,884	1,523,715
Oregon	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pennsylvania	113,928	100,427	90,053	92,657	81,720	84,461	90,914	89,966	87,987	79,134
South Dakota	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tennessee	63	71	75	90	77	85	NA	58	48	57
Texas	5,892,704	5,963,605	6,080,210	6,205,034	6,490,202	6,636,555	6,953,790	7,188,900	7,495,414	7,853,199
Utah	51,040	57,175	74,128	77,122	79,739	71,616	69,366	48,965	46,151	46,733
Virginia	2,227	2,466	2,499	2,085	1,600	3,152	4,249	3,818	3,389	2,846
West Virginia	208,757	210,556	210,698	210,223	202,765	207,416	211,610	211,460	236,971	231,759
Wyoming	181,610	194,674	204,996	209,060	231,613	235,849	243,381	240,074	248,481	303,517
Total U.S.	12,771,038	13,254,025	13,876,622	14,746,663	15,462,143	16,039,753	17,206,628	18,171,325	19,322,400	20,698,240

Natural Gas Production by State
Million cubic feet

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Alabama	627	355	3,644	11,271	27,865	37,814	41,427	57,227	85,599	85,815
Alaska	111,576	121,618	125,596	131,007	128,935	160,270	166,072	187,889	203,088	220,754
Arizona	1,101	868	442	125	224	208	262	240	286	247
Arkansas	181,351	172,154	166,522	157,529	123,975	116,237	109,533	104,096	106,792	109,452
California	649,117	612,629	487,278	449,369	365,354	318,308	354,334	311,462	311,084	248,206
Colorado	105,804	108,537	116,949	137,725	144,629	171,629	183,972	188,792	183,693	191,239
Florida	0	903	15,521	33,857	38,137	44,383	43,165	48,171	51,595	50,190
Illinois	4,850	498	1,194	1,638	1,436	1,440	1,556	1,003	1,159	1,585
Indiana	153	537	355	276	176	346	192	183	163	350
Kansas	899,955	885,144	889,268	893,118	886,782	843,625	829,170	781,289	854,484	797,762
Kentucky	77,892	72,723	63,648	62,396	71,876	60,511	66,137	60,902	70,044	59,520
Louisiana	7,788,276	8,081,907	7,972,678	8,242,423	7,753,631	7,090,645	7,006,596	7,215,006	7,476,497	7,266,217
Maryland	813	214	244	298	133	93	75	82	88	28
Michigan	38,851	25,662	34,221	44,579	69,133	102,113	119,262	129,954	148,047	159,731
Mississippi	126,031	118,805	103,989	99,706	78,787	74,345	70,762	82,995	106,579	144,077
Missouri	87	22	9	33	33	30	29	20	0	0
Montana	42,705	32,720	33,474	56,175	54,873	40,734	42,563	46,819	46,522	53,888
Nebraska	5,991	3,496	3,478	3,836	2,538	2,565	2,511	2,789	2,882	3,208
New Mexico	1,138,980	1,167,577	1,216,061	1,218,749	1,244,779	1,217,430	1,230,976	1,202,973	1,174,198	1,181,363
New York	3,358	2,202	3,679	4,539	4,990	7,628	9,235	10,682	13,900	15,500
North Dakota	34,889	33,864	32,472	27,703	31,206	24,786	31,470	29,173	30,499	18,468
Ohio	52,113	79,903	89,995	93,610	92,055	84,960	88,891	99,327	114,098	123,431
Oklahoma	1,594,943	1,684,260	1,806,887	1,770,980	1,638,942	1,605,410	1,726,513	1,769,519	1,773,582	1,835,366
Oregon	NA	NA	NA	0	0	0	0	0	0	2
Pennsylvania	76,841	76,451	73,958	78,514	82,637	84,676	89,386	91,717	97,763	96,313
South Dakota	NA	NA	0	0	0	0	0	0	0	914
Tennessee	64	89	25	20	17	27	47	263	468	941
Texas	8,357,716	8,550,705	8,657,840	8,513,850	8,170,798	7,485,764	7,191,859	7,051,027	6,548,184	7,174,623
Utah	42,781	42,418	39,474	42,715	50,522	55,354	57,416	60,696	58,416	58,605
Virginia	2,805	2,619	2,787	5,101	7,096	6,723	6,937	8,220	8,492	8,544
West Virginia	242,452	234,027	214,951	208,676	202,306	154,484	153,322	152,767	148,564	150,505
Wyoming	338,520	380,105	375,059	357,731	326,657	316,123	328,768	330,180	357,267	414,416
Total U.S.	21,920,642	22,493,012	22,531,698	22,647,549	21,600,522	20,108,661	19,952,438	20,025,463	19,974,033	20,471,260

Natural Gas Production by State
Million cubic feet

	1980	1981	1982	1983	1984	1985	1986
Alabama	65,294	79,244	75,003	90,801	101,821	107,342	107,211
Alaska	230,588	242,564	264,364	276,691	289,129	321,346	306,468
Arizona	214	187	99	132	45	85	* NA
Arkansas	111,808	92,986	124,611	127,561	135,161	155,099	132,470
California	309,783	380,730	383,977	415,324	476,333	491,283	469,444
Colorado	188,001	195,706	209,892	163,545	173,257	178,233	158,456
Florida	40,638	32,470	22,515	21,056	12,585	10,545	8,914
Illinois	1,574	1,295	1,162	1,030	1,530	1,324	* NA
Indiana	463	330	233	135	394	367	* NA
Kansas	735,035	640,114	429,597	434,736	465,979	512,872	448,334
Kentucky	57,180	61,312	51,924	46,720	61,518	73,126	* NA
Louisiana	6,639,416	6,780,184	6,171,627	5,332,113	5,825,055	5,013,702	4,888,512
Maryland	68	56	36	31	60	39	* NA
Michigan	158,302	152,593	153,051	138,910	144,537	131,855	127,008
Mississippi	175,061	181,238	167,231	151,204	157,911	44,172	142,716
Missouri	0	0	NA	0	4	4	* NA
Montana	51,867	56,565	56,517	51,967	51,474	52,494	49,491
Nebraska	2,550	2,519	2,280	2,091	2,300	1,944	* NA
New Mexico	1,149,781	1,134,078	991,178	895,279	957,366	905,272	709,883
New York	15,643	16,074	15,877	17,836	25,200	31,561	* NA
North Dakota	42,346	42,573	53,818	69,319	70,496	72,633	59,605
Ohio	138,856	141,134	138,391	151,300	186,480	182,245	* NA
Oklahoma	1,891,824	2,019,199	1,934,412	1,730,061	1,985,869	1,936,341	1,917,490
Oregon	5	5	3	3	2,790	4,080	* NA
Pennsylvania	97,439	122,454	121,111	118,372	166,342	150,234	* NA
South Dakota	1,193	1,155	2,331	1,846	1,947	2,558	* NA
Tennessee	1,241	1,719	2,976	3,950	5,022	4,686	* NA
Texas	7,115,889	6,910,021	6,468,817	5,938,561	6,185,021	6,052,663	6,092,105
Utah	87,766	91,191	94,255	63,158	74,698	83,405	88,129
Virginia	7,812	8,903	6,880	4,346	8,901	15,041	* NA
West Virginia	156,551	161,251	150,850	130,078	143,730	144,883	130,058
Wyoming	409,541	410,499	424,657	443,988	516,683	41,656	495,459
Total U.S.	**19,883,729**	**19,960,349**	**18,519,675**	**16,822,144**	**18,229,638**	**17,197,999**	**16,808,753**

* 1986 production figures were not available for all states at time of publication. U.S. figure is estimate of total production for all states.

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

U.S. Imports & Exports of Natural Gas

Year	Imports		Exports	
	Mmcf	Mmcfd	Mmcf	Mmcfd
1930	21	0.1	1,798	4.9
1931	44	0.1	2,231	6.1
1932	38	0.1	1,693	4.6
1933	83	0.2	2,158	5.9
1934	68	0.2	5,801	15.9
1935	106	0.3	6,800	18.6
1936	152	0.4	7,436	20.3
1937	289	0.8	4,868	13.3
1938	372	1.0	1,837	5.0
1939	131	0.4	3,122	8.6
1940	0	0.0	5,563	15.2
1941	0	0.0	7,466	20.5
1942	0	0.0	8,702	23.8
1943	0	0.0	11,210	30.7
1944	0	0.0	14,576	39.8
1945	0	0.0	18,207	49.9
1946	0	0.0	17,675	48.4
1947	0	0.0	18,149	49.7
1948	0	0.0	18,704	51.1
1949	0	0.0	20,054	54.9
1950	0	0.0	25,727	70.5
1951	0	0.0	24,163	66.2
1952	7,807	21.3	27,456	75.0
1953	9,225	25.3	28,322	77.6
1954	6,847	18.8	28,726	78.7
1955	10,888	29.8	31,029	85.0
1956	10,380	28.4	35,963	98.3
1957	37,941	103.9	41,655	114.1
1958	135,797	372.0	38,719	106.1
1959	133,990	367.1	18,413	50.4
1960	155,646	425.3	11,332	31.0
1961	218,860	599.6	10,747	29.4
1962	401,534	1,100.1	15,814	43.3
1963	406,204	1,112.9	16,957	46.5
1964	443,326	1,211.3	19,603	53.6
1965	456,394	1,250.4	26,132	71.6
1966	479,780	1,314.5	24,639	67.5
1967	564,226	1,545.8	81,614	223.6
1968	651,885	1,781.1	93,745	256.1
1969	726,951	1,991.6	51,304	140.6
1970	820,780	2,248.7	69,813	191.3
1971	934,548	2,560.4	80,212	219.8
1972	1,019,496	2,785.5	78,013	213.2
1973	1,032,901	2,829.9	77,169	211.4
1974	959,284	2,628.2	76,789	210.4
1975	953,008	2,611.0	72,675	199.1
1976	963,768	2,633.2	64,711	176.8
1977	1,011,001	2,769.9	55,626	152.4
1978	965,545	2,645.3	52,532	143.9
1979	1,253,383	3,433.9	55,673	152.5
1980	984,767	2,690.6	48,731	133.1
1981	903,949	2,476.6	59,372	162.7
1982	933,336	2,557.1	51,728	141.7
1983	919,752	2,519.9	54,638	149.7
1984	843,060	2,303.4	54,753	149.6
1985	949,372	2,601.0	57,095	156.4
1986	754,000	2,065.8	55,000	150.7

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

U.S. Natural Gas Imports and Exports
By Country
Million cubic feet

	Imports					Exports			
	Natural Gas from Canada	Natural Gas from Mexico	LNG from Algeria	LNG from Other	Total U.S. Imports	Natural Gas to Canada	Natural Gas to Mexico	LNG to Japan	Total U.S. Exports
1955	10,881	7	0	0	10,888	11,467	19,562	0	31,029
1956	10,374	6	0	0	10,380	16,819	19,144	0	35,963
1957	20,971	16,970	0	0	37,941	30,867	10,788	0	41,655
1958	89,586	46,211	0	0	135,797	32,129	6,590	0	38,719
1959	83,061	50,929	0	0	133,990	11,739	6,674	0	18,413
1960	108,657	46,989	0	0	155,646	5,759	5,573	0	11,332
1961	167,104	51,756	0	0	218,860	5,577	5,170	0	10,747
1962	350,438	51,096	0	0	401,534	5,574	10,240	0	15,814
1963	356,455	49,749	0	0	406,204	6,879	10,078	0	16,957
1964	390,721	52,605	0	0	443,326	9,763	9,840	0	19,603
1965	404,686	51,708	0	0	456,394	17,979	8,153	0	26,132
1966	430,189	49,591	0	0	479,780	20,281	4,358	0	24,639
1967	513,255	50,971	0	0	564,226	70,456	11,158	0	81,614
1968	604,462	47,423	NA	0	651,885	81,647	12,098	0	93,745
1969	680,106	46,845	NA	0	726,951	34,931	13,391	2,982	51,304
1970	778,687	41,336	757	NA	820,780	10,878	14,678	44,257	69,813
1971	910,926	20,689	1,433	*1,500	934,548	14,349	15,632	50,231	80,212
1972	1,009,093	8,140	2,032	*230	1,019,496	15,553	14,579	47,882	78,013
1973	1,027,216	1,632	3,388	*667	1,032,901	14,824	13,999	48,346	77,169
1974	959,063	222	0	0	959,284	13,263	13,268	50,258	76,789
1975	948,115	0	4,893	0	953,008	10,219	9,454	53,002	72,675
1976	953,613	0	10,155	0	963,768	7,506	7,425	49,779	64,711
1977	996,723	2,384	11,324	*572	1,011,001	31	3,940	51,655	55,626
1978	881,123	0	84,422	0	965,545	66	4,033	48,434	52,532
1979	1,000,775	0	252,608	0	1,253,383	76	4,308	51,289	55,673
1980	796,507	102,410	85,850	0	984,767	113	3,886	44,732	48,731
1981	762,107	105,013	36,824	*6	903,949	106	3,337	55,929	59,372
1982	783,407	94,794	55,136	0	933,336	162	1,705	49,861	51,728
1983	711,923	75,361	131,124	0	918,407	136	1,646	52,857	54,638
1984	755,368	51,502	36,191	0	843,060	127	1,786	52,840	54,753
1985	926,056	0	23,659	0	949,715	178	2,207	52,883	55,268
1986	747,709	0	0	+1,669	749,378	9,203	1,896	50,172	61,271

* From Canada.
+ From Indonesia.

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Imports of Natural Gas
Total U.S.
Millions of cubic feet per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1973	3,000.0	3,000.0	2,935.5	2,933.3	2,774.2	2,633.3	2,580.6	2,741.9	2,733.3	2,935.5	2,833.3	2,871.0	**2,831.0**
1974	2,774.2	2,821.4	2,741.9	2,766.7	2,580.6	2,466.7	2,387.1	2,451.6	2,333.3	2,677.4	2,733.3	2,806.5	**2,628.4**
1975	2,612.9	2,678.6	2,677.4	2,733.3	2,580.6	2,533.3	2,580.6	2,419.4	2,466.7	2,580.6	2,700.0	2,774.2	**2,611.5**
1976	2,709.7	2,689.7	2,741.9	2,866.7	2,645.2	2,533.3	2,354.8	2,483.9	2,466.7	2,741.9	2,700.0	2,677.4	**2,634.3**
1977	2,806.5	3,285.7	3,258.1	2,800.0	2,774.2	2,533.3	2,354.8	2,451.6	2,500.0	2,741.9	2,866.7	2,903.2	**2,773.0**
1978	2,774.2	2,750.0	2,774.2	2,600.0	2,387.1	2,266.7	2,322.6	2,387.1	2,433.3	2,580.6	3,033.3	3,451.6	**2,646.7**
1979	3,290.3	3,464.3	3,645.2	3,533.3	3,354.8	3,366.7	3,354.8	3,129.0	3,266.7	3,451.6	3,800.0	3,548.4	**3,433.8**
1980	3,806.5	3,724.1	3,516.1	2,566.7	2,258.1	2,033.3	1,967.7	1,935.5	2,000.0	2,419.4	2,933.3	3,161.3	**2,693.5**
1981	2,935.5	3,035.7	2,580.6	2,300.0	2,000.0	2,166.7	2,129.0	2,064.5	2,233.3	2,548.4	2,733.3	3,000.0	**2,477.3**
1982	3,161.3	3,035.7	2,645.2	2,400.0	2,096.8	2,033.3	2,161.3	1,967.7	2,200.0	2,483.9	3,033.3	3,548.4	**2,563.9**
1983	3,612.9	3,392.9	2,774.2	2,466.7	1,967.7	1,966.7	1,871.0	1,806.5	2,233.3	2,064.5	2,666.7	3,451.6	**2,522.9**
1984	3,129.0	2,379.3	2,225.8	2,366.7	2,129.0	1,966.7	1,774.2	1,741.9	1,900.0	2,161.3	2,800.0	3,032.3	**2,300.5**
1985	3,354.8	3,535.7	2,903.2	2,533.3	2,354.8	2,166.7	1,903.2	1,967.7	2,100.0	2,451.6	2,566.7	3,419.4	**2,604.8**
1986	3,161.3	2,607.1	1,741.9	1,433.3	1,548.4	1,533.3	1,516.1	1,612.9	1,833.3	2,129.0	2,500.0	3,193.5	**2,067.5**

Imports of Natural Gas
Total U.S.
Billions of cubic feet

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1973	93	84	91	88	86	79	80	85	82	91	85	89	**1,033**
1974	86	79	85	83	80	74	74	76	70	83	82	87	**959**
1975	81	75	83	82	80	76	80	75	74	80	81	86	**953**
1976	84	78	85	86	82	76	73	77	74	85	81	83	**964**
1977	87	92	101	84	86	76	73	76	75	85	86	90	**1,011**
1978	86	77	86	78	74	68	72	74	73	80	91	107	**966**
1979	102	97	113	106	104	101	104	97	98	107	114	110	**1,253**
1980	118	108	109	77	70	61	61	60	60	75	88	98	**985**
1981	91	85	80	69	62	65	66	64	67	79	82	93	**903**
1982	98	85	82	72	65	61	67	61	66	77	91	110	**935**
1983	112	95	86	74	61	59	58	56	67	64	80	107	**919**
1984	97	69	69	71	66	59	55	54	57	67	84	94	**842**
1985	104	99	90	76	73	65	59	61	63	76	77	106	**949**
1986	98	73	54	43	48	46	47	50	55	66	75	99	**754**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Exports of Natural Gas
Total U.S.
Millions of cubic feet per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1976	161.3	172.4	193.5	200.0	161.3	166.7	193.5	193.5	200.0	161.3	166.7	161.3	**177.6**
1977	161.3	142.9	129.0	100.0	96.8	166.7	225.8	161.3	166.7	161.3	166.7	161.3	**153.3**
1978	161.3	178.6	161.3	100.0	161.3	133.3	161.3	161.3	200.0	96.8	100.0	129.0	**145.3**
1979	193.5	178.6	161.3	166.7	161.3	166.7	193.5	129.0	166.7	96.8	100.0	129.0	**153.6**
1980	193.5	172.4	161.3	100.0	96.8	100.0	96.8	96.8	166.7	161.3	100.0	161.3	**133.9**
1981	161.3	178.6	161.3	166.7	129.0	166.7	161.3	161.3	200.0	161.3	166.7	161.3	**164.6**
1982	96.8	178.6	161.3	66.7	96.8	200.0	161.3	193.5	166.7	161.3	166.7	161.3	**150.9**
1983	161.3	178.6	161.3	133.3	96.8	166.7	161.3	129.0	166.7	129.0	166.7	161.3	**151.0**
1984	161.3	172.4	193.5	166.7	161.3	100.0	161.3	161.3	166.7	161.3	166.7	161.3	**161.1**
1985	161.3	178.6	193.5	166.7	64.5	166.7	193.5	161.3	166.7	161.3	166.7	161.3	**161.8**
1986	161.3	178.6	161.3	133.3	129.0	166.7	129.0	161.3	133.3	161.3	166.7	129.0	**150.9**

Exports of Natural Gas
Total U.S.
Billions of cubic feet

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1976	5	5	6	6	5	5	6	6	6	5	5	5	**65**
1977	5	4	4	3	3	5	7	5	5	5	5	5	**56**
1978	5	5	5	3	5	4	5	5	6	3	3	4	**53**
1979	6	5	5	5	5	5	6	4	5	3	3	4	**56**
1980	6	5	5	3	3	3	3	3	5	5	3	5	**49**
1981	5	5	5	5	4	5	5	5	6	5	5	5	**60**
1982	3	5	5	2	3	6	5	6	5	5	5	5	**55**
1983	5	5	5	4	3	5	5	4	5	4	5	5	**55**
1984	5	5	6	5	5	3	5	5	5	5	5	5	**59**
1985	5	5	6	5	2	5	6	5	5	5	5	5	**59**
1986	5	5	5	4	4	5	4	5	4	5	5	4	**55**

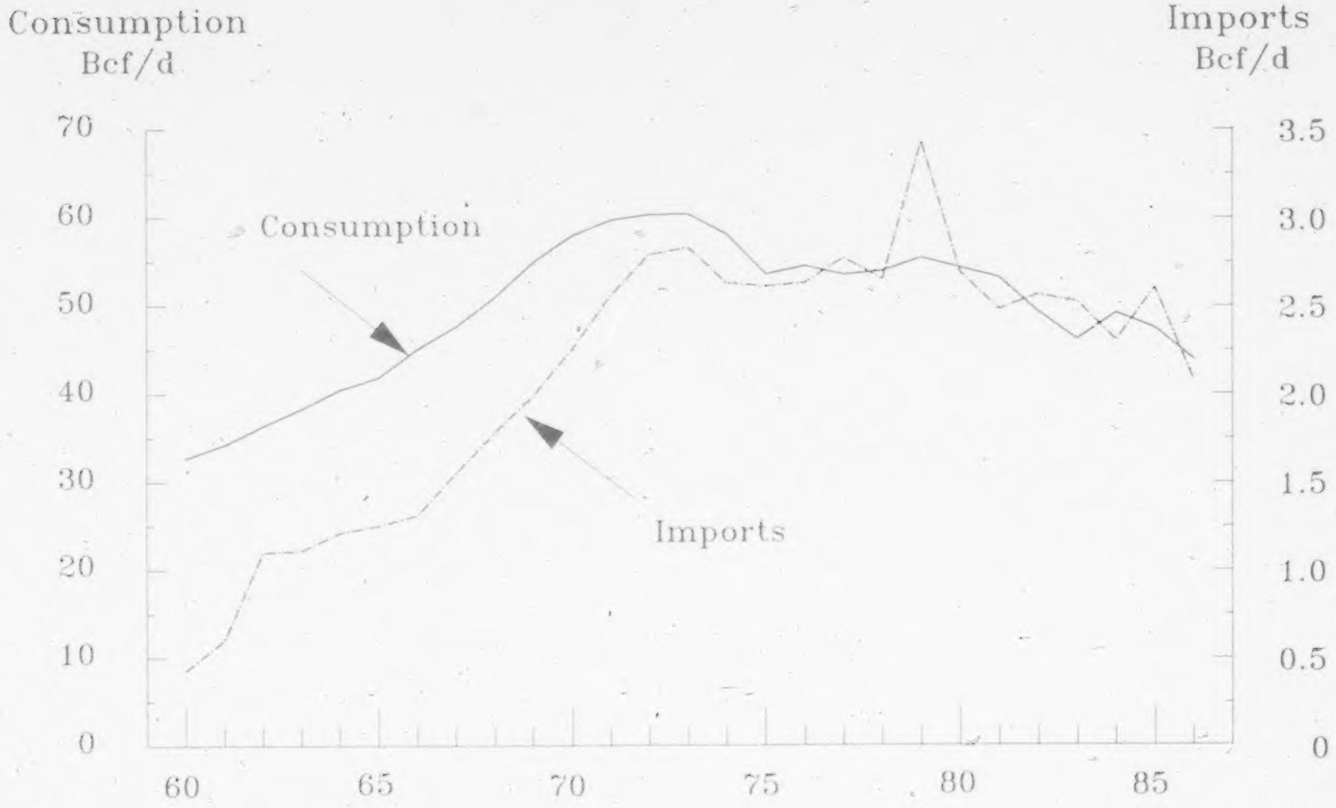
Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Natural Gas in Underground Storage
Total U.S.
Billions of cubic feet

	January	February	March	April	May	June	July	August	September	October	November	December
Total Gas in Storage												
1977	4,580	4,446	4,501	4,713	5,024	5,330	5,665	5,945	6,188	6,302	6,224	5,844
1978	5,193	4,683	4,497	4,608	4,870	5,217	5,550	5,904	6,224	6,402	6,352	5,999
1979	5,348	4,806	4,695	4,762	5,057	5,399	5,743	6,095	6,401	6,563	6,541	6,297
1980	5,865	5,397	5,131	5,227	5,538	5,841	6,127	6,444	6,692	6,782	6,639	6,272
1981	5,795	5,472	5,285	5,434	5,660	5,933	6,257	6,595	6,872	6,974	6,932	6,569
1982	5,932	5,536	5,370	5,454	5,814	6,147	6,484	6,778	7,033	7,149	7,081	6,879
1983	6,457	6,167	5,959	5,877	6,026	6,272	6,522	6,732	6,964	7,095	7,015	6,442
1984	5,937	5,704	5,396	5,442	5,670	5,969	6,285	6,569	6,825	7,011	6,915	6,706
1985	6,083	5,694	5,578	5,691	5,965	6,191	6,454	6,681	6,931	7,059	6,934	6,451
1986	6,056	5,714	5,602	5,673	5,901	6,144	6,400	6,660	6,880	7,039	6,912	6,580
Base Gas in Storage												
1977	3,293	3,283	3,286	3,286	3,293	3,300	3,317	3,346	3,364	3,373	3,403	3,377
1978	3,374	3,373	3,374	3,377	3,379	3,381	3,386	3,403	3,411	3,444	3,425	3,459
1979	3,458	3,457	3,459	3,427	3,438	3,449	3,459	3,467	3,481	3,484	3,496	3,537
1980	3,535	3,536	3,542	3,547	3,553	3,560	3,564	3,594	3,596	3,598	3,620	3,629
1981	3,642	3,648	3,654	3,670	3,684	3,681	3,699	3,713	3,720	3,726	3,731	3,752
1982	3,751	3,750	3,766	3,778	3,780	3,778	3,780	3,781	3,782	3,785	3,772	3,808
1983	3,813	3,811	3,812	3,818	3,818	3,819	3,826	3,823	3,823	3,825	3,841	3,847
1984	3,847	3,828	3,824	3,822	3,827	3,828	3,829	3,829	3,829	3,837	3,900	3,830
1985	3,841	3,841	3,835	3,831	3,837	3,839	3,849	3,849	3,849	3,851	3,847	3,842
1986	3,842	3,842	3,838	3,834	3,830	3,829	3,841	3,838	3,838	3,840	3,833	3,833
Working Gas in Storage												
1977	1,287	1,163	1,215	1,427	1,731	2,030	2,348	2,599	2,824	2,929	2,821	2,467
1978	1,819	1,310	1,123	1,231	1,491	1,836	2,164	2,501	2,813	2,958	2,927	2,540
1979	1,890	1,349	1,236	1,335	1,619	1,950	2,284	2,628	2,920	3,079	3,045	2,760
1980	2,330	1,861	1,589	1,680	1,985	2,281	2,563	2,850	3,096	3,184	3,019	2,643
1981	2,152	1,824	1,631	1,764	1,977	2,252	2,558	2,882	3,152	3,248	3,201	2,817
1982	2,182	1,787	1,604	1,676	2,034	2,369	2,704	2,998	3,251	3,364	3,309	3,071
1983	2,644	2,356	2,148	2,074	2,222	2,454	2,696	2,908	3,141	3,270	3,175	2,595
1984	2,091	1,876	1,572	1,620	1,843	2,141	2,456	2,740	2,996	3,175	3,015	2,876
1985	2,242	1,853	1,743	1,859	2,129	2,351	2,605	2,832	3,082	3,207	3,087	2,609
1986	2,214	1,872	1,764	1,838	2,071	2,315	2,558	2,822	3,042	3,199	3,080	2,747
Net Injections or Withdrawals												
1977	-652	-134	55	213	312	305	333	269	260	113	-76	-375
1978	-647	-509	-186	111	261	347	333	347	320	181	-53	-351
1979	-652	-543	-111	109	295	342	342	350	312	162	-24	-239
1980	-444	-469	-266	96	311	303	284	298	249	88	-137	-368
1981	-521	-317	-179	153	228	287	309	346	277	104	-44	-353
1982	-649	-396	-176	73	371	342	339	298	257	131	-80	-204
1983	-424	-289	-207	-78	151	234	243	212	232	131	-78	-567
1984	-517	-244	-317	44	224	296	317	288	259	95	-145	-213
1985	-610	-391	-119	113	272	221	263	228	253	128	-103	-485
1986	-392	-341	-112	71	228	244	256	261	219	152	-127	-338

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Natural Gas Imports and Consumption



Source: EIA

Total U.S. Consumption of Natural Gas
by End Use Sector
Million cubic feet

	Lease & Plant Fuel	Pipeline Fuel	Total Delivered to Consumers	Residential Consumption	Commercial Consumption	Industrial Consumption	Electric Utilities Consumption	Total Consumption
1930	648,025	NA	1,218,479	295,700	80,707	721,782	120,290	**1,866,504**
1931	509,077	NA	1,112,884	294,406	86,491	593,644	138,343	**1,621,961**
1932	477,562	NA	1,024,957	298,520	87,367	531,831	107,239	**1,502,519**
1933	442,879	NA	1,062,240	283,197	85,577	590,865	102,601	**1,505,119**
1934	502,352	NA	1,210,446	288,236	91,261	703,053	127,896	**1,712,798**
1935	524,926	NA	1,329,487	313,498	100,187	790,563	125,239	**1,854,413**
1936	557,404	NA	1,542,050	343,346	111,623	931,001	156,080	**2,099,454**
1937	581,110	NA	1,751,721	371,844	117,390	1,091,920	170,567	**2,332,831**
1938	585,865	NA	1,634,894	367,772	114,296	982,838	169,988	**2,220,759**
1939	607,138	NA	1,792,881	391,153	118,334	1,092,263	191,131	**2,400,019**
1940	632,335	NA	1,942,798	443,646	134,644	1,181,352	183,156	**2,575,133**
1941	570,694	NA	2,119,034	442,067	144,244	1,326,967	205,156	**2,689,728**
1942	602,063	NA	2,323,710	498,537	183,603	1,402,834	238,736	**2,925,773**
1943	659,198	NA	2,622,493	529,444	204,793	1,582,680	305,576	**3,281,691**
1944	712,312	NA	2,841,283	562,183	220,747	1,698,608	359,745	**3,553,595**
1945	757,016	NA	2,983,527	607,400	230,099	1,819,838	326,190	**3,740,543**
1946	732,535	NA	3,115,121	660,820	241,802	1,905,575	306,924	**3,847,656**
1947	745,027	NA	3,492,783	802,150	285,213	2,032,383	373,037	**4,237,810**
1948	812,005	NA	3,923,636	896,348	323,054	2,226,137	478,097	**4,735,641**
1949	835,297	NA	4,135,855	992,544	347,818	2,245,372	550,121	**4,971,152**
1950	927,611	125,546	4,713,385	1,198,369	387,838	2,498,259	628,919	**5,766,542**
1951	1,149,470	192,496	5,468,196	1,474,725	464,309	2,765,264	763,898	**6,810,162**
1952	1,164,596	207,207	5,922,517	1,621,966	515,669	2,874,765	910,117	**7,294,320**
1953	1,131,017	230,314	6,277,939	1,685,503	530,650	3,027,514	1,034,272	**7,639,270**
1954	1,102,535	230,615	6,715,354	1,894,248	584,957	3,070,651	1,165,498	**8,048,504**
1955	1,130,985	245,246	7,317,426	2,123,952	629,219	3,410,975	1,153,280	**8,693,657**
1956	1,002,537	295,972	7,990,356	2,327,564	716,871	3,706,610	1,239,311	**9,288,865**
1957	1,046,084	299,235	8,500,820	2,500,269	775,916	3,888,494	1,336,141	**9,846,139**
1958	1,146,064	312,221	8,844,323	2,714,251	871,774	3,885,445	1,372,853	**10,302,608**
1959	1,238,945	349,348	9,732,888	2,912,601	975,107	4,216,671	1,628,509	**11,321,181**
1960	1,236,781	347,075	10,382,681	3,103,167	1,020,222	4,534,530	1,724,762	**11,966,537**
1961	1,288,762	377,607	10,822,899	3,248,578	1,076,849	4,672,355	1,825,117	**12,489,268**
1962	1,369,512	382,496	11,514,505	3,478,563	1,206,668	4,863,300	1,965,974	**13,266,513**
1963	1,411,088	423,783	12,135,358	3,589,021	1,267,783	5,134,081	2,144,473	**13,970,229**
1964	1,370,835	435,570	13,007,403	3,787,292	1,374,717	5,522,498	2,322,896	**14,813,808**
1965	1,156,224	500,524	13,622,968	3,902,802	1,443,648	5,955,417	2,321,101	**15,279,716**
1966	1,033,400	535,353	14,883,650	4,138,259	1,622,740	6,512,702	2,609,949	**16,452,403**
1967	1,140,966	575,752	15,671,642	4,313,304	1,958,970	6,653,016	2,746,352	**17,388,360**
1968	1,237,131	590,965	16,803,966	4,450,354	2,075,736	7,129,967	3,147,909	**18,632,062**
1969	1,345,648	630,962	18,079,630	4,728,281	2,253,206	7,610,501	3,487,642	**20,056,240**

Total U.S. Consumption of Natural Gas
by End Use Sector
Million cubic feet

	Lease & Plant Fuel	Pipeline Fuel	Total Delivered to Consumers	Residential Consumption	Commercial Consumption	Industrial Consumption	Electric Utilities Consumption	Total Consumption
1970	1,398,758	722,166	19,018,462	4,837,432	2,398,510	7,850,660	3,931,860	**21,139,386**
1971	1,413,650	742,592	19,637,212	4,971,690	2,508,977	8,180,527	3,976,018	**21,793,454**
1972	1,455,563	766,156	19,879,733	5,125,982	2,607,982	8,168,856	3,976,913	**22,101,452**
1973	1,495,915	728,177	19,825,271	4,879,387	2,597,037	8,688,675	3,660,172	**22,049,363**
1974	1,477,386	668,792	19,076,955	4,786,128	2,555,617	8,291,782	3,443,428	**21,223,133**
1975	1,396,277	582,963	17,558,353	4,924,124	2,508,293	6,968,267	3,157,669	**19,537,593**
1976	1,634,355	548,323	17,763,818	5,051,360	2,667,740	6,963,850	3,080,868	**19,946,496**
1977	1,659,145	532,669	17,328,767	4,821,485	2,500,793	6,815,289	3,191,200	**19,520,581**
1978	1,647,911	530,451	17,449,116	4,903,006	2,601,106	6,756,641	3,188,363	**19,627,478**
1979	1,498,530	600,964	18,141,267	4,965,365	2,785,961	6,899,418	3,490,523	**20,240,761**
1980	1,026,438	634,622	18,216,233	4,752,082	2,610,895	7,171,661	3,681,595	**19,877,293**
1981	927,591	642,325	17,833,942	4,546,450	2,519,791	7,127,548	3,640,153	**19,403,858**
1982	1,109,398	596,411	16,295,246	4,633,035	2,605,523	5,831,170	3,225,518	**18,001,055**
1983	978,249	490,042	15,368,000	4,381,000	2,433,000	5,643,000	2,911,000	**16,836,291**
1984	1,076,881	528,754	16,344,892	4,555,465	2,524,244	6,153,841	3,111,342	**17,950,527**
1985	966,047	503,766	15,811,130	4,433,377	2,432,382	5,901,288	3,044,083	**17,280,943**
1986	947,000	480,000	14,580,000	4,404,000	2,348,000	5,226,000	2,602,000	**16,007,000**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Total U.S. Consumption of Natural Gas
by End Use Sector
Million cubic feet per day

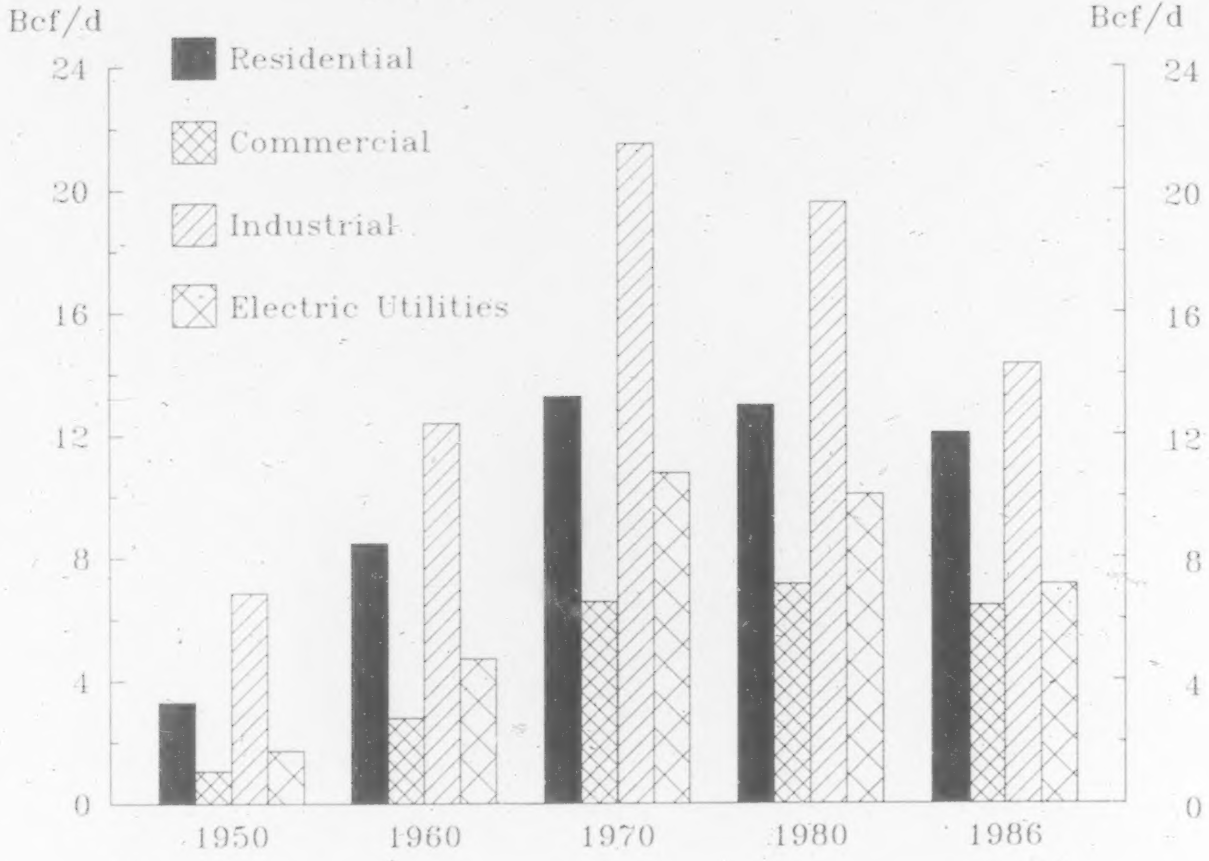
	Lease & Plant Fuel	Pipeline Fuel	Total Delivered to Consumers	Residential Consumption	Commercial Consumption	Industrial Consumption	Electric Utilities Consumption	Total Consumption
1930	1,775.4	NA	3,338.3	810.1	221.1	1,977.5	329.6	**5,113.7**
1931	1,394.7	NA	3,049.0	806.6	237.0	1,626.4	379.0	**4,443.7**
1932	1,304.8	NA	2,800.4	815.6	238.7	1,453.1	293.0	**4,105.2**
1933	1,213.4	NA	2,910.2	775.9	234.5	1,618.8	281.1	**4,123.6**
1934	1,376.3	NA	3,316.3	789.7	250.0	1,926.2	350.4	**4,692.6**
1935	1,438.2	NA	3,642.4	858.9	274.5	2,165.9	343.1	**5,080.6**
1936	1,523.0	NA	4,213.3	938.1	305.0	2,543.7	426.4	**5,736.2**
1937	1,592.1	NA	4,799.2	1,018.8	321.6	2,991.6	467.3	**6,391.3**
1938	1,605.1	NA	4,479.2	1,007.6	313.1	2,692.7	465.7	**6,084.3**
1939	1,663.4	NA	4,912.0	1,071.7	324.2	2,992.5	523.6	**6,575.4**
1940	1,727.7	NA	5,308.2	1,212.1	367.9	3,227.7	500.4	**7,035.9**
1941	1,563.5	NA	5,805.6	1,211.1	396.8	3,635.5	562.1	**7,369.1**
1942	1,649.5	NA	6,366.3	1,365.9	503.0	3,843.4	654.1	**8,015.8**
1943	1,806.0	NA	7,184.9	1,450.5	561.1	4,336.1	837.2	**8,990.9**
1944	1,946.2	NA	7,763.1	1,536.0	603.1	4,641.0	982.9	**9,709.3**
1945	2,074.0	NA	8,174.0	1,664.1	630.4	4,985.9	893.7	**10,248.1**
1946	2,006.9	NA	8,534.6	1,810.5	662.5	5,220.8	840.9	**10,541.5**
1947	2,041.2	NA	9,569.3	2,197.7	781.4	5,568.2	1,022.0	**11,610.4**
1948	2,218.6	NA	10,720.3	2,449.0	882.7	6,082.3	1,306.3	**12,938.9**
1949	2,288.5	NA	11,331.1	2,719.3	952.9	6,151.7	1,507.2	**13,619.6**
1950	2,541.4	344.0	12,913.4	3,283.2	1,062.6	6,844.5	1,723.1	**15,798.7**
1951	3,149.2	527.4	14,981.4	4,040.3	1,272.1	7,576.1	2,092.9	**18,658.0**
1952	3,182.0	566.1	16,184.7	4,431.6	1,408.9	7,854.5	2,486.7	**19,929.8**
1953	3,098.7	631.0	17,199.8	4,617.8	1,453.8	8,294.6	2,833.6	**20,929.5**
1954	3,020.6	631.8	18,398.2	5,189.7	1,602.6	8,412.7	3,193.1	**22,050.7**
1955	3,098.6	671.9	20,047.7	5,819.0	1,723.9	9,345.1	3,159.7	**23,818.2**
1956	2,739.2	808.7	21,831.6	6,359.5	1,958.7	10,127.3	3,386.1	**25,379.4**
1957	2,866.0	819.8	23,289.9	6,850.1	2,125.8	10,653.4	3,660.7	**26,975.7**
1958	3,139.9	855.4	24,231.0	7,436.3	2,388.4	10,645.1	3,761.2	**28,226.3**
1959	3,394.4	957.1	26,665.4	7,979.7	2,671.5	11,552.5	4,461.7	**31,016.9**
1960	3,379.2	948.3	28,368.0	8,478.6	2,787.5	12,389.4	4,712.5	**32,695.5**
1961	3,530.9	1,034.5	29,651.8	8,900.2	2,950.3	12,801.0	5,000.3	**34,217.2**
1962	3,752.1	1,047.9	31,546.6	9,530.3	3,305.9	13,324.1	5,386.2	**36,346.6**
1963	3,866.0	1,161.0	33,247.6	9,832.9	3,473.4	14,066.0	5,875.3	**38,274.6**
1964	3,745.5	1,190.1	35,539.4	10,347.8	3,756.1	15,088.8	6,346.7	**40,474.9**
1965	3,167.7	1,371.3	37,323.2	10,692.6	3,955.2	16,316.2	6,359.2	**41,862.2**
1966	2,831.2	1,466.7	40,777.1	11,337.7	4,445.9	17,843.0	7,150.5	**45,075.1**
1967	3,125.9	1,577.4	42,936.0	11,817.3	5,367.0	18,227.4	7,524.3	**47,639.3**
1968	3,380.1	1,614.7	45,912.5	12,159.4	5,671.4	19,480.8	8,600.8	**50,907.3**
1969	3,686.7	1,728.7	49,533.2	12,954.2	6,173.2	20,850.7	9,555.2	**54,948.6**

Total U.S. Consumption of Natural Gas
by End Use Sector
Million cubic feet per day

	Lease & Plant Fuel	Pipeline Fuel	Total Delivered to Consumers	Residential Consumption	Commercial Consumption	Industrial Consumption	Electric Utilities Consumption	Total Consumption
1970	3,832.2	1,978.5	52,105.4	13,253.2	6,571.3	21,508.7	10,772.2	**57,916.1**
1971	3,873.0	2,034.5	53,800.6	13,621.1	6,873.9	22,412.4	10,893.2	**59,708.1**
1972	3,976.9	2,093.3	54,316.2	14,005.4	7,125.6	22,319.3	10,865.9	**60,386.5**
1973	4,098.4	1,995.0	54,315.8	13,368.2	7,115.2	23,804.6	10,027.9	**60,409.2**
1974	4,047.6	1,832.3	52,265.6	13,112.7	7,001.7	22,717.2	9,434.0	**58,145.6**
1975	3,825.4	1,597.2	48,105.1	13,490.8	6,872.0	19,091.1	8,651.1	**53,527.7**
1976	4,465.5	1,498.2	48,535.0	13,801.5	7,288.9	19,026.9	8,417.7	**54,498.6**
1977	4,545.6	1,459.4	47,476.1	13,209.5	6,851.5	18,672.0	8,743.0	**53,481.0**
1978	4,514.8	1,453.3	47,805.8	13,432.9	7,126.3	18,511.3	8,735.2	**53,773.9**
1979	4,105.6	1,646.5	49,702.1	13,603.7	7,632.8	18,902.5	9,563.1	**55,454.1**
1980	2,804.5	1,733.9	49,771.1	12,983.8	7,133.6	19,594.7	10,059.0	**54,309.5**
1981	2,541.3	1,759.8	48,860.1	12,456.0	6,903.5	19,527.5	9,973.0	**53,161.3**
1982	3,039.4	1,634.0	44,644.5	12,693.2	7,138.4	15,975.8	8,837.0	**49,318.0**
1983	2,680.1	1,342.6	42,104.1	12,002.7	6,665.8	15,460.3	7,975.3	**46,126.8**
1984	2,942.3	1,444.7	44,658.2	12,446.6	6,896.8	16,813.8	8,500.9	**49,045.2**
1985	2,646.7	1,380.2	43,318.2	12,146.2	6,664.1	16,167.9	8,340.0	**47,345.0**
1986	2,594.5	1,315.1	39,945.2	12,065.8	6,432.9	14,317.8	7,128.8	**43,854.8**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Natural Gas Consumption By Sector



Source: BOM, EIA

Total Consumption of Natural Gas
Total U.S.
Million cubic feet per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1974	71,935	73,357	64,613	56,367	51,871	47,967	48,839	48,710	51,233	55,032	60,900	67,871	**58,225**
1975	72,516	69,250	61,387	52,500	42,935	41,900	42,355	44,161	45,667	49,806	54,667	66,097	**53,603**
1976	74,097	62,862	58,774	50,133	46,258	44,233	43,419	42,806	43,067	51,968	62,567	72,161	**54,362**
1977	77,645	64,857	55,323	47,967	44,484	44,433	42,742	44,000	47,567	48,968	56,333	68,000	**53,527**
1978	76,935	75,571	60,935	50,433	43,645	40,733	42,194	40,452	40,733	46,097	54,767	66,323	**53,235**
1979	77,968	78,393	60,516	52,867	46,032	43,800	42,677	43,129	44,067	50,000	58,633	66,355	**55,370**
1980	73,516	75,586	67,710	52,267	43,710	41,767	41,968	40,194	43,300	49,742	59,433	69,548	**54,895**
1981	73,516	67,643	61,290	49,633	46,000	43,633	42,419	42,387	42,200	48,968	53,967	67,000	**53,221**
1982	77,419	70,857	59,290	49,500	36,645	37,167	36,935	37,129	38,000	42,290	51,967	56,097	**49,441**
1983	63,710	58,643	51,323	45,767	36,065	32,467	33,355	35,871	35,700	40,194	50,100	70,677	**46,156**
1984	75,484	67,379	59,355	53,267	43,452	39,200	37,161	37,226	36,167	38,065	46,433	55,871	**49,088**
1985	67,774	76,714	55,452	48,233	37,032	35,900	36,129	36,065	34,700	37,032	43,767	61,387	**47,515**
1986	68,097	66,393	54,871	43,967	37,097	34,067	32,903	31,677	31,067	32,387	41,267	53,677	**43,956**

Total Consumption of Natural Gas
Total U.S.
Billion cubic feet

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1974	2,230	2,054	2,003	1,691	1,608	1,439	1,514	1,510	1,537	1,706	1,827	2,104	**21,223**
1975	2,248	1,939	1,903	1,575	1,331	1,257	1,313	1,369	1,370	1,544	1,640	2,049	**19,538**
1976	2,297	1,823	1,822	1,504	1,434	1,327	1,346	1,327	1,292	1,611	1,877	2,237	**19,897**
1977	2,407	1,816	1,715	1,439	1,379	1,333	1,325	1,364	1,427	1,518	1,690	2,108	**19,521**
1978	2,385	2,116	1,889	1,513	1,353	1,222	1,308	1,254	1,222	1,429	1,643	2,056	**19,390**
1979	2,417	2,195	1,876	1,586	1,427	1,314	1,323	1,337	1,322	1,550	1,759	2,057	**20,163**
1980	2,279	2,192	2,099	1,568	1,355	1,253	1,301	1,246	1,299	1,542	1,783	2,156	**20,073**
1981	2,279	1,894	1,900	1,489	1,426	1,309	1,315	1,314	1,266	1,518	1,619	2,077	**19,406**
1982	2,400	1,984	1,838	1,485	1,136	1,115	1,145	1,151	1,140	1,311	1,559	1,739	**18,003**
1983	1,975	1,642	1,591	1,373	1,118	974	1,034	1,112	1,071	1,246	1,503	2,191	**16,830**
1984	2,340	1,954	1,840	1,598	1,347	1,176	1,152	1,154	1,085	1,180	1,393	1,732	**17,951**
1985	2,101	2,148	1,719	1,447	1,148	1,077	1,120	1,118	1,041	1,148	1,313	1,903	**17,283**
1986	2,111	1,859	1,701	1,319	1,150	1,022	1,020	982	932	1,004	1,238	1,664	**16,002**

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration

Consumption of Natural Gas by End Use Sector Total U.S. Billion Cubic Feet

	Lease & Plant Fuel	Pipeline Fuel	Residential Consumption	Commercial Consumption	Industrial Consumption	Electric Utilities	Total Delivered to Consumers	Total Consumption
January 1981	81	75	831	389	654	232	2,123	**2,279**
February	73	63	740	343	439	224	1,758	**1,894**
March	81	63	585	291	594	273	1,756	**1,900**
April	78	49	372	194	497	289	1,362	**1,489**
May	79	47	260	145	573	316	1,300	**1,426**
June	76	43	168	109	525	381	1,190	**1,309**
July	77	44	136	93	548	411	1,194	**1,315**
August	79	43	123	100	572	390	1,192	**1,314**
September	73	42	133	102	586	325	1,151	**1,266**
October	76	50	232	141	710	302	1,392	**1,518**
November	74	54	364	195	663	259	1,491	**1,619**
December	80	69	601	303	770	239	1,928	**2,077**
Total 1981	**927**	**542**	**4,545**	**2,405**	**7,131**	**3,641**	**17,837**	**19,406**
January 1982	79	78	879	403	642	238	2,205	**2,400**
February	73	65	798	367	395	220	1,820	**1,984**
March	77	60	611	292	499	247	1,678	**1,838**
April	72	49	458	215	404	246	1,348	**1,485**
May	71	38	236	126	393	258	1,027	**1,136**
June	69	37	167	97	436	296	1,009	**1,115**
July	70	38	140	92	441	353	1,038	**1,145**
August	68	38	125	95	448	361	1,042	**1,151**
September	66	38	138	95	497	293	1,032	**1,140**
October	67	43	207	118	578	274	1,189	**1,311**
November	67	51	378	198	602	226	1,420	**1,559**
December	69	57	565	271	520	215	1,589	**1,739**
Total 1982	**848**	**592**	**4,702**	**2,369**	**5,855**	**3,227**	**16,397**	**18,003**
January 1983	89	57	718	366	537	208	1,829	**1,975**
February	79	48	694	360	284	177	1,515	**1,642**
March	81	46	541	285	430	208	1,464	**1,591**
April	77	40	464	241	348	203	1,256	**1,373**
May	77	33	277	151	362	218	1,008	**1,118**
June	74	28	181	110	333	248	872	**974**
July	78	30	134	100	378	314	926	**1,034**
August	81	32	123	103	421	352	999	**1,112**
September	79	31	128	105	429	299	961	**1,071**
October	84	36	179	119	577	251	1,126	**1,246**
November	85	44	330	185	645	214	1,374	**1,503**
December	93	64	612	308	896	218	2,034	**2,191**
Total 1983	**977**	**489**	**4,381**	**2,433**	**5,640**	**2,910**	**15,364**	**16,830**

Consumption of Natural Gas by End Use Sector Total U.S. Billion Cubic Feet

	Lease & Plant Fuel	Pipeline Fuel	Residential Consumption	Commercial Consumption	Industrial Consumption	Electric Utilities	Total Delivered to Consumers	Total Consumption
January 1984	102	55	886	437	645	215	2,183	**2,340**
February	88	44	700	354	581	187	1,822	**1,954**
March	91	46	605	311	581	206	1,703	**1,840**
April	89	41	463	243	542	220	1,468	**1,598**
May	89	42	287	160	504	265	1,216	**1,347**
June	86	42	170	108	472	298	1,048	**1,176**
July	89	44	128	97	445	349	1,019	**1,152**
August	88	43	118	98	457	350	1,023	**1,154**
September	84	40	127	101	442	291	961	**1,085**
October	88	42	182	128	470	270	1,050	**1,180**
November	88	42	323	193	502	245	1,263	**1,393**
December	95	48	566	294	512	217	1,589	**1,732**
Total 1984	1,077	529	4,555	2,524	6,153	3,113	16,345	**17,951**
January 1985	91	54	743	372	615	226	1,956	**2,101**
February	84	46	837	412	566	203	2,018	**2,148**
March	83	42	566	290	531	207	1,594	**1,719**
April	79	39	397	206	492	234	1,329	**1,447**
May	78	40	212	128	454	236	1,030	**1,148**
June	75	38	157	100	425	282	964	**1,077**
July	77	40	130	96	440	337	1,003	**1,120**
August	77	39	119	93	435	355	1,002	**1,118**
September	75	37	129	98	427	275	929	**1,041**
October	78	39	190	125	466	250	1,031	**1,148**
November	79	39	306	180	479	230	1,195	**1,313**
December	91	51	647	333	571	210	1,761	**1,903**
Total 1985	967	504	4,433	2,433	5,901	3,045	15,812	**17,283**
January 1986	91	49	805	395	587	184	1,971	**2,111**
February	79	43	698	348	534	157	1,737	**1,859**
March	84	42	592	294	520	170	1,576	**1,702**
April	75	36	371	191	449	198	1,209	**1,320**
May	77	38	242	134	428	231	1,035	**1,150**
June	73	37	158	99	395	260	912	**1,022**
July	76	38	129	89	387	301	906	**1,020**
August	76	38	120	91	381	276	868	**982**
September	72	36	133	93	351	247	824	**932**
October	76	38	189	119	367	217	892	**1,006**
November	81	38	355	192	385	187	1,119	**1,238**
December	87	47	610	302	443	175	1,530	**1,664**
Total 1986	947	480	4,402	2,347	5,227	2,603	14,579	**16,006**

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration

Consumption of Natural Gas
by End Use Sector
Total U.S.
Million Cubic Feet per Day

	Lease & Plant Fuel	Pipeline Fuel	Residential Consumption	Commercial Consumption	Industrial Consumption	Electric Utilities	Total Delivered to Consumers	Total Consumption
January 1981	2,612.9	2,419.4	26,806.5	12,548.4	21,096.8	7,483.9	68,483.9	**73,516.1**
February	2,607.1	2,250.0	26,428.6	12,250.0	15,678.6	8,000.0	62,785.7	**67,642.9**
March	2,612.9	2,032.3	18,871.0	9,387.1	19,161.3	8,806.5	56,645.2	**61,290.3**
April	2,600.0	1,633.3	12,400.0	6,466.7	16,566.7	9,633.3	45,400.0	**49,633.3**
May	2,548.4	1,516.1	8,387.1	4,677.4	18,483.9	10,193.5	41,935.5	**46,000.0**
June	2,533.3	1,433.3	5,600.0	3,633.3	17,500.0	12,700.0	39,666.7	**43,633.3**
July	2,483.9	1,419.4	4,387.1	3,000.0	17,677.4	13,258.1	38,516.1	**42,419.4**
August	2,548.4	1,387.1	3,967.7	3,225.8	18,451.6	12,580.6	38,451.6	**42,387.1**
September	2,433.3	1,400.0	4,433.3	3,400.0	19,533.3	10,833.3	38,366.7	**42,200.0**
October	2,451.6	1,612.9	7,483.9	4,548.4	22,903.2	9,741.9	44,903.2	**48,967.7**
November	2,466.7	1,800.0	12,133.3	6,500.0	22,100.0	8,633.3	49,700.0	**53,966.7**
December	2,580.6	2,225.8	19,387.1	9,774.2	24,838.7	7,709.7	62,193.5	**67,000.0**
1981 Average	**2,539.9**	**1,760.8**	**12,523.8**	**6,617.6**	**19,499.3**	**9,964.5**	**48,920.7**	**53,221.4**
January 1982	2,548.4	2,516.1	28,354.8	13,000.0	20,709.7	7,677.4	71,129.0	**77,419.4**
February	2,607.1	2,321.4	28,500.0	13,107.1	14,107.1	7,857.1	65,000.0	**70,857.1**
March	2,483.9	1,935.5	19,709.7	9,419.4	16,096.8	7,967.7	54,129.0	**59,290.3**
April	2,400.0	1,633.3	15,266.7	7,166.7	13,466.7	8,200.0	44,933.3	**49,500.0**
May	2,290.3	1,225.8	7,612.9	4,064.5	12,677.4	8,322.6	33,129.0	**36,645.2**
June	2,300.0	1,233.3	5,566.7	3,233.3	14,533.3	9,866.7	33,633.3	**37,166.7**
July	2,258.1	1,225.8	4,516.1	2,967.7	14,225.8	11,387.1	33,483.9	**36,935.5**
August	2,193.5	1,225.8	4,032.3	3,064.5	14,451.6	11,645.2	33,612.9	**37,129.0**
September	2,200.0	1,266.7	4,600.0	3,166.7	16,566.7	9,766.7	34,400.0	**38,000.0**
October	2,161.3	1,387.1	6,677.4	3,806.5	18,645.2	8,838.7	38,354.8	**42,290.3**
November	2,233.3	1,700.0	12,600.0	6,600.0	20,066.7	7,533.3	47,333.3	**51,966.7**
December	2,225.8	1,838.7	18,225.8	8,741.9	16,774.2	6,935.5	51,258.1	**56,096.8**
1982 Average	**2,325.1**	**1,625.8**	**12,971.9**	**6,528.2**	**16,026.8**	**8,833.2**	**45,033.1**	**49,441.4**
January 1983	2,871.0	1,838.7	23,161.3	11,806.5	17,322.6	6,709.7	59,000.0	**63,709.7**
February	2,821.4	1,714.3	24,785.7	12,857.1	10,142.9	6,321.4	54,107.1	**58,642.9**
March	2,612.9	1,483.9	17,451.6	9,193.5	13,871.0	6,709.7	47,225.8	**51,322.6**
April	2,566.7	1,333.3	15,466.7	8,033.3	11,600.0	6,766.7	41,866.7	**45,766.7**
May	2,483.9	1,064.5	8,935.5	4,871.0	11,677.4	7,032.3	32,516.1	**36,064.5**
June	2,466.7	933.3	6,033.3	3,666.7	11,100.0	8,266.7	29,066.7	**32,466.7**
July	2,516.1	967.7	4,322.6	3,225.8	12,193.5	10,129.0	29,871.0	**33,354.8**
August	2,612.9	1,032.3	3,967.7	3,322.6	13,580.6	11,354.8	32,225.8	**35,871.0**
September	2,633.3	1,033.3	4,266.7	3,500.0	14,300.0	9,966.7	32,033.3	**35,700.0**
October	2,709.7	1,161.3	5,774.2	3,838.7	18,612.9	8,096.8	36,322.6	**40,193.5**
November	2,833.3	1,466.7	11,000.0	6,166.7	21,500.0	7,133.3	45,800.0	**50,100.0**
December	3,000.0	2,064.5	19,741.9	9,935.5	28,903.2	7,032.3	65,612.9	**70,677.4**
1983 Average	**2,677.3**	**1,341.2**	**12,075.6**	**6,701.4**	**15,400.3**	**7,959.9**	**42,137.3**	**46,155.8**

Consumption of Natural Gas
by End Use Sector
Total U.S.
Million Cubic Feet per Day

	Lease & Plant Fuel	Pipeline Fuel	Residential Consumption	Commercial Consumption	Industrial Consumption	Electric Utilities	Total Delivered to Consumers	Total Consumption
January 1984	3,290.3	1,774.2	28,580.6	14,096.8	20,806.5	6,935.5	70,419.4	75,483.9
February	3,034.5	1,517.2	24,137.9	12,206.9	20,034.5	6,448.3	62,827.6	67,379.3
March	2,935.5	1,483.9	19,516.1	10,032.3	18,741.9	6,645.2	54,935.5	59,354.8
April	2,966.7	1,366.7	15,433.3	8,100.0	18,066.7	7,333.3	48,933.3	53,266.7
May	2,871.0	1,354.8	9,258.1	5,161.3	16,258.1	8,548.4	39,225.8	43,451.6
June	2,866.7	1,400.0	5,666.7	3,600.0	15,733.3	9,933.3	34,933.3	39,200.0
July	2,871.0	1,419.4	4,129.0	3,129.0	14,354.8	11,258.1	32,871.0	37,161.3
August	2,838.7	1,387.1	3,806.5	3,161.3	14,741.9	11,290.3	33,000.0	37,225.8
September	2,800.0	1,333.3	4,233.3	3,366.7	14,733.3	9,700.0	32,033.3	36,166.7
October	2,838.7	1,354.8	5,871.0	4,129.0	15,161.3	8,709.7	33,871.0	38,064.5
November	2,933.3	1,400.0	10,766.7	6,433.3	16,733.3	8,166.7	42,100.0	46,433.3
December	3,064.5	1,548.4	18,258.1	9,483.9	16,516.1	7,000.0	51,258.1	55,871.0
1984 Average	**2,942.6**	**1,445.0**	**12,471.4**	**6,908.4**	**16,823.5**	**8,497.4**	**44,700.7**	**49,088.2**
January 1985	2,935.5	1,741.9	23,967.7	12,000.0	19,838.7	7,290.3	63,096.8	67,774.2
February	3,000.0	1,642.9	29,892.9	14,714.3	20,214.3	7,250.0	72,071.4	76,714.3
March	2,677.4	1,354.8	18,258.1	9,354.8	17,129.0	6,677.4	51,419.4	55,451.6
April	2,633.3	1,300.0	13,233.3	6,866.7	16,400.0	7,800.0	44,300.0	48,233.3
May	2,516.1	1,290.3	6,838.7	4,129.0	14,645.2	7,612.9	33,225.8	37,032.3
June	2,500.0	1,266.7	5,233.3	3,333.3	14,166.7	9,400.0	32,133.3	35,900.0
July	2,483.9	1,290.3	4,193.5	3,096.8	14,193.5	10,871.0	32,354.8	35,129.0
August	2,483.9	1,258.1	3,838.7	3,000.0	14,032.3	11,451.6	32,322.6	36,064.5
September	2,500.0	1,233.3	4,300.0	3,266.7	14,233.3	9,166.7	30,966.7	34,700.0
October	2,516.1	1,258.1	6,129.0	4,032.3	15,032.3	8,064.5	33,258.1	37,032.3
November	2,633.3	1,300.0	10,200.0	6,000.0	15,966.7	7,666.7	39,833.3	43,766.7
December	2,935.5	1,645.2	20,871.0	10,741.9	18,419.4	6,774.2	56,806.5	61,387.1
1985 Average	**2,651.3**	**1,381.8**	**12,246.4**	**6,711.3**	**16,189.3**	**8,335.4**	**43,482.4**	**47,515.4**
January 1986	2,935.5	1,580.6	25,967.7	12,741.9	18,935.5	5,935.5	63,580.6	68,096.8
February	2,821.4	1,535.7	24,928.6	12,428.6	19,071.4	5,607.1	62,035.7	66,392.9
March	2,709.7	1,354.8	19,096.8	9,483.9	16,774.2	5,483.9	50,838.7	54,903.2
April	2,500.0	1,200.0	12,366.7	6,366.7	14,966.7	6,600.0	40,300.0	44,000.0
May	2,483.9	1,225.8	7,806.5	4,322.6	13,806.5	7,451.6	33,387.1	37,096.8
June	2,433.3	1,233.3	5,266.7	3,300.0	13,166.7	8,666.7	30,400.0	34,066.7
July	2,451.6	1,225.8	4,161.3	2,871.0	12,483.9	9,709.7	29,225.8	32,903.2
August	2,451.6	1,225.8	3,871.0	2,935.5	12,290.3	8,903.2	28,000.0	31,677.4
September	2,400.0	1,200.0	4,433.3	3,100.0	11,700.0	8,233.3	27,466.7	31,066.7
October	2,451.6	1,225.8	6,096.8	3,838.7	11,838.7	7,000.0	28,774.2	32,451.6
November	2,700.0	1,266.7	11,833.3	6,400.0	12,833.3	6,233.3	37,300.0	41,266.7
December	2,806.5	1,516.1	18,677.4	9,741.9	14,290.3	5,645.2	49,354.8	53,677.4
1986 Average	**2,595.4**	**1,315.9**	**12,125.5**	**6,460.9**	**14,346.5**	**7,122.5**	**40,055.3**	**43,966.6**

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration

U.S. Natural Gas Consumption
Million cubic feet

	1970	1971	1972	1973	1974	1975	1976	1977
Alabama	298,497	285,973	278,467	272,068	274,761	264,088	225,979	241,237
Alaska	63,726	67,706	74,658	63,073	62,874	84,751	90,121	116,278
Arizona	192,996	213,313	227,909	214,323	192,446	156,222	171,275	167,092
Arkansas	381,951	333,644	316,375	327,803	290,393	258,220	248,941	229,558
California	2,126,466	2,149,264	2,185,543	2,045,627	1,834,413	1,832,849	1,756,611	1,772,041
Colorado	282,328	289,369	309,703	324,007	313,056	307,772	302,284	282,215
Connecticut	60,574	61,434	64,008	62,609	66,343	64,011	65,855	64,068
Delaware	26,421	26,452	24,088	22,949	20,365	18,603	19,182	15,787
District of Columbia	* NA	* NA	* NA	* NA	* NA	* NA	* NA	* NA
Florida	336,816	336,721	298,977	311,498	289,551	280,095	283,017	302,344
Georgia	332,526	342,579	331,143	348,089	330,339	326,559	261,320	264,665
Hawaii	NA	NA	NA	NA	NA	NA	NA	NA
Idaho	46,570	50,096	56,630	56,045	53,057	60,451	47,156	45,537
Illinois	1,173,878	1,229,277	1,207,289	1,150,266	1,149,394	1,095,115	1,175,235	1,167,099
Indiana	545,368	566,996	576,948	542,300	531,872	477,341	425,221	398,268
Iowa	348,662	344,639	344,516	364,640	367,595	345,798	311,425	280,246
Kansas	575,694	606,989	628,109	604,460	587,013	498,727	515,197	506,910
Kentucky	248,048	244,360	255,208	245,472	228,003	207,539	245,967	219,521
Louisiana	1,840,840	1,883,924	1,939,762	2,009,859	2,008,364	1,788,588	2,043,705	2,190,848
Maine +	10,691	12,088	13,267	13,881	14,697	13,534	13,545	13,609
Maryland *	182,135	188,371	204,922	201,961	199,331	165,932	176,272	158,838
Massachusetts	147,307	156,451	160,280	155,547	155,268	153,967	156,247	160,343
Michigan	809,124	850,562	864,770	920,351	936,043	884,184	888,035	741,295
Minnesota	342,322	351,442	351,408	360,811	351,644	331,186	320,156	293,381
Mississippi	360,382	378,321	377,986	313,992	276,199	230,053	199,122	197,689
Missouri	429,526	429,105	425,215	426,807	409,884	369,620	380,258	366,970
Montana	87,791	88,271	84,322	90,230	79,909	79,520	74,371	70,956
Nebraska	222,335	223,674	224,562	229,632	222,807	218,834	198,634	188,804
Nevada	52,558	66,511	69,522	73,072	63,438	61,251	66,797	71,052
New Hampshire	+ NA	+ NA	+ NA	+ NA	+ NA	+ NA	+ NA	+ NA
New Jersey	322,853	326,768	321,288	301,566	275,050	244,102	321,535	247,120
New Mexico	270,103	269,368	287,993	256,811	257,436	240,260	278,976	229,813
New York	710,885	716,550	692,730	682,547	627,493	576,883	595,933	561,698
North Carolina	151,227	160,567	163,897	160,871	140,217	114,822	101,175	72,527
North Dakota	32,717	33,577	36,473	32,428	35,459	36,826	41,177	37,650
Ohio	1,052,933	1,087,126	1,147,804	1,104,156	1,086,651	956,876	1,005,927	847,497
Oklahoma	597,169	611,582	629,757	611,738	660,010	668,819	760,110	766,986
Oregon	95,284	100,897	110,360	107,961	98,051	109,898	92,500	72,521
Pennsylvania	772,388	802,113	828,961	783,297	715,548	653,742	713,5[illegible]8	668,337
Rhode Island	25,093	25,662	22,494	20,559	23,781	23,129	20,697	25,631
South Carolina	159,830	156,263	144,120	153,147	131,991	122,949	148,989	138,585
South Dakota	36,319	31,832	34,077	31,221	32,076	32,534	39,207	36,097
Tennessee	256,148	265,011	277,275	293,620	260,171	217,328	212,326	202,135
Texas	4,093,357	4,364,728	4,412,636	4,621,378	4,463,488	3,944,377	3,975,307	4,143,023
Utah	121,937	121,403	124,093	123,106	121,015	124,160	146,205	106,315
Vermont	+ NA	+ NA	+ NA	+ NA	+ NA	+ NA	+ NA	+ NA
Virginia	136,523	144,014	155,658	152,848	143,650	121,320	123,509	118,020
Washington	149,992	156,663	170,448	197,861	182,723	164,334	148,781	142,657
West Virginia	181,278	178,380	199,141	186,316	182,370	158,435	150,723	144,535
Wisconsin	337,822	348,132	320,826	367,961	381,148	364,801	315,154	349,160
Wyoming	109,996	115,286	125,834	108,599	95,746	87,188	86,819	83,623
Total U.S.	21,139,386	21,793,454	22,101,452	22,049,363	21,223,133	19,537,593	19,946,496	19,520,581

U.S. Natural Gas Consumption
Million cubic feet

	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	237,258	283,435	269,240	271,280	240,957	221,583	231,997	219,455
Alaska	145,025	157,236	153,345	121,727	237,881	239,200	257,525	212,765
Arizona	175,041	172,738	165,850	182,533	135,031	115,233	121,149	130,776
Arkansas	220,699	250,747	273,720	264,787	226,941	206,966	210,021	195,633
California	1,563,172	1,810,381	1,807,731	1,858,178	1,682,718	1,535,031	1,669,705	1,846,078
Colorado	267,838	292,272	256,363	211,780	224,991	213,812	229,647	218,942
Connecticut	65,191	67,957	72,583	76,829	78,246	74,427	81,139	78,215
Delaware	20,626	24,981	29,797	30,643	27,833	34,884	42,962	38,493
District of Columbia	* NA	* NA	27,868	29,023	29,280	29,340	29,449	28,902
Florida	318,344	344,177	316,588	337,557	324,807	306,307	303,309	289,706
Georgia	278,272	312,299	315,201	316,613	294,651	295,531	307,323	281,805
Hawaii	NA	NA	3,131	2,899	2,804	2,669	2,375	2,483
Idaho	44,210	54,237	49,047	44,960	39,971	35,179	38,604	39,194
Illinois	1,174,934	1,142,732	1,089,720	1,061,957	994,179	938,340	1,032,779	962,039
Indiana	440,955	504,185	489,254	496,349	467,842	426,770	452,284	432,958
Iowa	238,229	291,521	269,581	253,231	237,089	220,517	234,846	255,903
Kansas	519,346	584,236	488,338	428,130	400,920	346,204	363,671	355,467
Kentucky	212,913	218,689	202,284	199,445	188,536	174,306	189,255	172,510
Louisiana	2,249,172	1,978,382	1,794,007	1,781,716	1,556,052	1,412,983	1,594,246	1,386,365
Maine +	14,039	14,881	2,268	2,326	2,691	2,424	2,449	2,531
Maryland *	161,695	201,584	160,244	175,289	157,990	145,628	158,389	150,838
Massachusetts	160,503	156,459	182,587	184,575	195,107	191,815	208,758	218,884
Michigan	789,594	875,726	865,137	800,873	748,141	696,455	718,103	709,232
Minnesota	313,229	334,202	285,846	266,282	262,039	240,777	255,638	257,480
Mississippi	203,719	254,366	263,530	242,987	269,131	237,859	268,560	226,663
Missouri	358,905	347,257	318,450	283,514	279,449	258,560	264,954	259,900
Montana	72,649	69,805	60,724	52,452	52,208	46,249	46,864	47,265
Nebraska	163,051	170,013	163,079	138,322	138,238	129,290	134,465	126,135
Nevada	64,506	84,433	58,454	73,182	46,627	41,926	42,256	39,200
New Hampshire	+ NA	+ NA	9,474	10,220	10,078	9,655	10,531	10,629
New Jersey	228,843	260,573	339,825	390,121	375,660	405,387	418,220	379,230
New Mexico	213,698	211,182	221,793	196,212	204,163	178,698	161,850	151,128
New York	569,702	623,891	737,443	760,463	775,268	720,398	790,011	762,621
North Carolina	81,989	130,884	153,316	152,496	142,129	136,579	143,854	133,825
North Dakota	39,067	29,236	22,848	34,445	28,370	26,126	30,153	28,096
Ohio	929,593	898,029	896,983	870,341	813,519	747,268	785,297	733,116
Oklahoma	770,249	824,908	722,318	670,971	676,762	628,950	652,953	587,407
Oregon	86,140	93,707	78,703	75,562	70,824	67,045	78,643	83,002
Pennsylvania	673,770	740,818	775,715	784,691	694,639	643,952	676,721	625,667
Rhode Island	23,042	27,219	27,630	29,202	27,874	29,044	31,689	29,874
South Carolina	117,573	119,319	142,228	141,924	98,100	101,632	108,429	97,469
South Dakota	35,423	25,724	24,078	22,056	25,089	23,326	24,592	25,202
Tennessee	184,048	226,477	229,661	223,529	207,161	194,610	206,353	190,266
Texas	4,211,432	4,001,355	4,091,099	3,926,687	3,394,404	3,241,515	3,432,624	3,385,715
Utah	118,513	126,047	115,092	102,239	117,706	110,185	115,578	115,117
Vermont	+ NA	+ NA	3,991	4,383	4,370	4,359	4,868	4,998
Virginia	134,144	134,088	158,479	151,737	150,964	142,944	143,582	139,458
Washington	127,280	158,515	128,770	124,942	108,653	107,193	126,287	134,599
West Virginia	151,839	148,538	143,047	148,527	130,029	115,813	124,368	117,168
Wisconsin	370,726	367,517	351,857	324,611	312,007	299,099	305,076	308,365
Wyoming	87,292	93,797	68,975	69,056	90,923	80,871	85,423	82,172
Total U.S.	**19,627,478**	**20,240,761**	**19,877,292**	**19,403,858**	**18,001,055**	**16,834,914**	**17,950,528**	**17,280,943**

* Maryland includes District of Columbia through 1979.
+ Maine includes New Hampshire and Vermont through 1979.

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration.

Worldwide Natural Gas Production
By Country
Billions of cubic feet

	1978	1979	1980	1981	1982	1983	1984	1985	1986
United States	20,415.1	19,999.4	20,267.6	19,595.8	18,904.5	17,072.0	18,093.0	17,611.0	16,906.0
Canada	3,133.1	3,646.5	2,934.9	2,623.0	2,629.1	2,429.2	2,600.0	3,196.3	3,406.4
Argentina	254.3	241.7	298.7	348.3	383.4	553.7	652.8	672.9	663.1
Bolivia	130.8	122.5	128.1	151.7	132.2	98.5	91.8	87.8	98.5
Brazil	85.2	77.0	84.7	96.3	106.2	142.2	172.9	193.3	200.6
Chile	320.7	306.4	113.5	140.7	178.5	169.8	173.8	208.5	213.4
Colombia	127.4	116.3	127.8	114.0	105.9	168.5	189.2	185.1	183.3
Ecuador	99.9	159.4	101.8	89.0	8.2	8.2	16.8	15.6	2.6
Guatemala	NA	NA	NA	NA	NA	0.0	1.1	1.2	1.2
Mexico	887.5	974.9	1,193.7	1,485.4	1,544.8	1,468.4	1,373.3	1,312.2	1,252.4
Peru	66.4	41.2	40.4	24.8	29.6	33.6	35.4	44.4	45.0
Trinidad	159.9	164.6	188.6	192.0	129.7	103.0	121.9	114.7	121.3
Venezuela	401.4	406.0	518.2	602.0	576.3	559.2	609.6	609.6	615.3
Latin America	2,533.5	2,610.0	2,795.5	3,244.2	3,194.8	3,305.1	3,438.6	3,445.3	3,396.7
Western Hemisphere	26,081.7	26,255.9	25,998.0	25,463.0	24,728.4	22,806.3	24,131.6	24,252.6	23,709.1
Austria	67.8	79.2	65.6	89.1	48.9	40.2	44.8	40.8	39.6
Denmark	NA	NA	NA	NA	NA	19.0	21.4	39.7	60.2
France	236.6	245.2	269.4	275.2	332.6	289.3	373.4	263.7	149.7
Germany, West	612.3	722.3	745.6	637.9	591.3	600.2	674.3	608.0	553.7
Greece	NA	NA	NA	NA	NA	0.0	1.7	1.3	1.9
Italy	754.3	544.6	530.6	500.0	500.9	456.9	506.8	489.1	527.3
Netherlands	1,667.5	2,729.8	2,810.6	3,056.8	2,713.2	2,677.8	2,700.8	2,916.4	2,623.3
Norway	359.8	425.9	713.2	928.0	858.4	858.3	922.6	904.2	902.6
Spain	24.5	25.6	12.6	11.4	12.0	12.0	8.0	10.1	12.7
Turkey	36.4	21.8	12.0	12.0	7.1	10.2	37.6	51.8	16.4
United Kingdom	1,277.4	1,977.2	2,145.2	1,427.2	1,293.1	1,408.5	1,405.2	1,502.1	1,568.2
Western Europe	5,036.6	6,771.6	7,304.8	6,937.6	6,357.5	6,372.4	6,696.6	6,827.2	6,455.6
Algeria	328.7	338.5	517.0	1,148.8	828.5	706.8	810.0	1,300.0	1,238.3
Angola-Cabinda	62.2	17.0	1.2	7.3	9.9	59.1	78.4	12.0	8.0
Congo	3.9	0.2	NA	NA	NA	0.0	0.2	1.2	1.1
Egypt	105.6	90.4	31.0	29.0	86.4	103.0	108.0	132.0	157.5
Gabon	2.9	3.5	7.1	4.1	3.8	4.8	4.8	8.1	2.4
Libya	364.0	162.0	132.8	677.7	204.1	98.8	150.0	158.0	165.6
Morocco	11.4	2.2	2.0	7.6	7.1	3.6	3.6	5.0	2.6
Nigeria	586.6	365.6	187.6	66.0	66.0	131.8	157.0	88.0	72.8
Tunisia	92.7	85.0	6.0	9.3	15.0	16.8	18.0	16.4	15.4
Africa	1,558.0	1,064.4	884.7	1,949.8	1,220.8	1,124.7	1,330.0	1,720.7	1,663.7

Worldwide Natural Gas Production
By Country
Billions of cubic feet

	1978	1979	1980	1981	1982	1983	1984	1985	1986
Bahrain	120.7	67.0	92.0	174.9	179.3	193.8	194.3	226.3	215.7
Iran	1,752.9	918.3	292.0	53.0	269.1	498.0	460.0	440.0	489.3
Iraq	120.7	48.8	18.0	71.0	38.3	20.1	18.5	21.6	21.0
Israel	1.5	2.1	1.2	1.3	7.2	13.1	10.4	2.4	2.4
Kuwait	192.0	211.1	293.3	341.9	219.4	144.7	144.0	144.0	144.4
Oman	107.2	35.9	12.0	12.0	49.1	86.4	142.0	80.0	48.2
Qatar	47.7	26.9	38.2	207.0	168.9	87.1	98.0	200.0	206.2
Saudi Arabia	112.2	215.6	313.2	437.0	493.1	382.2	386.0	232.0	328.7
Syria	56.1	33.1	17.0	13.0	9.2	8.4	8.4	6.0	4.8
United Arab Emirates	93.0	44.1	141.3	229.9	308.0	203.7	265.0	316.0	362.1
Middle East	2,604.0	1,602.9	1,218.2	1,541.0	1,741.6	1,637.5	1,726.6	1,668.3	1,822.8
Afghanistan	102.1	83.9	69.7	72.0	122.4	158.2	147.0	102.0	102.0
Australia	239.2	254.1	275.3	379.3	411.5	417.2	447.7	476.3	520.7
Brunei	* 328.5	* 302.7	292.0	305.0	321.5	315.5	313.0	306.0	274.8
Burma	5.2	5.4	12.2	12.0	14.8	16.8	17.0	21.6	23.8
India	54.9	55.1	74.9	47.3	83.4	102.9	102.5	110.6	212.9
Indonesia	565.8	816.3	1,028.4	1,078.0	865.6	488.0	596.0	944.0	1,153.3
Japan	97.5	86.6	90.9	113.1	83.4	73.7	74.3	79.0	74.3
Malaysia	* NA	* NA	36.4	47.6	27.3	45.2	60.0	191.2	218.8
New-Zealand	61.8	42.1	45.0	55.2	103.5	112.3	135.0	170.9	191.7
Pakistan	163.0	180.5	352.4	601.0	335.5	340.3	354.1	355.7	395.3
Taiwan	24.6	1.2	43.1	65.0	60.0	60.0	60.0	46.1	35.0
Thailand	NA	NA	NA	NA	NA	54.2	78.3	121.1	114.5
Asia-Pacific	1,642.6	1,827.9	2,320.3	2,775.5	2,428.9	2,184.3	2,384.9	2,924.5	3,317.1
Eastern Hemisphere	10,841.2	11,266.8	11,728.0	13,203.9	11,748.8	11,318.9	12,138.1	13,140.7	13,259.2
Non-Communist	3[illegible],922.9	37,522.7	37,726.0	38,666.9	36,477.2	34,125.2	36,269.7	37,393.3	36,968.3
China	2,325.2	2,832.7	3,469.0	459.0	435.9	380.9	380.0	540.0	648.3
Romania	1,211.6	1,210.5	1,176.4	1,440.0	1,157.2	1,198.9	1,206.0	1,272.0	1,210.2
U.S.S.R.	13,207.9	14,458.6	15,298.3	16,325.1	17,720.6	18,988.1	20,714.0	22,701.4	24,272.3
Other Communist	969.9	1,181.1	1,069.0	890.0	946.0	1,050.4	900.0	940.0	1,016.2
Communist	17,714.6	19,682.9	21,012.7	19,114.1	20,259.7	21,618.3	23,200.0	25,453.4	27,147.0
Total World	54,637.5	57,205.6	58,738.7	57,781.0	56,736.9	55,743.5	59,469.7	62,846.7	64,115.3

* Brunei includes Malaysia for 1978-1979.

Data from Oil & Gas Journal Energy Database.
Source: Oil & Gas Journal

Worldwide Natural Gas Production
Non-Communist, Total World
Billions of cubic feet

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1971													
Non-Communist	3,179.4	3,022.9	3,011.7	2,793.4	2,708.4	2,588.7	2,530.5	2,720.9	2,707.3	2,727.6	2,926.6	3,287.4	**34,204.8**
Total World	3,925.0	3,695.6	3,748.0	3,487.4	3,393.4	3,248.2	3,207.6	3,445.6	3,418.2	3,479.7	3,684.2	4,082.0	**42,814.9**
1972													
Non-Communist	3,126.9	3,127.8	3,122.7	3,108.8	3,102.3	3,041.7	2,972.4	2,955.0	2,803.5	2,930.6	3,076.0	3,194.5	**36,562.2**
Total World	3,930.6	3,897.4	3,944.9	3,900.6	3,869.9	3,793.3	3,724.3	3,715.5	3,566.8	3,720.6	3,883.2	4,069.3	**46,016.4**
1973													
Non-Communist	3,135.5	3,269.4	3,169.6	3,190.6	3,183.2	3,148.4	3,148.6	3,129.6	2,952.6	3,069.0	3,074.8	3,143.4	**37,614.7**
Total World	4,033.7	4,109.1	4,087.3	4,068.8	4,055.3	4,009.6	4,013.3	4,000.7	3,781.0	3,926.5	3,912.7	3,999.9	**47,997.9**
1974													
Non-Communist	3,339.8	3,376.8	3,079.3	3,090.8	2,965.0	2,884.1	2,964.4	2,929.1	3,046.0	2,988.6	3,081.8	3,142.7	**36,888.4**
Total World	4,221.8	4,239.2	3,986.4	3,949.6	3,822.3	3,732.8	3,822.3	3,808.8	3,962.1	3,929.2	4,026.8	4,165.6	**47,666.9**
1975													
Non-Communist	2,858.4	2,981.4	3,003.7	3,007.2	3,083.3	2,981.8	3,062.1	2,827.7	2,888.7	2,824.7	2,872.1	2,840.5	**35,231.6**
Total World	3,854.5	3,989.8	4,007.7	4,003.7	4,081.3	3,947.0	4,031.5	3,784.7	3,869.5	3,862.9	3,973.6	4,001.2	**47,407.4**
1976													
Non-Communist	2,972.2	2,964.7	3,082.4	3,056.1	2,986.2	3,081.7	3,012.9	3,003.1	2,862.7	2,834.6	2,840.2	2,836.6	**35,533.4**
Total World	4,136.5	4,132.1	4,287.9	4,221.8	4,159.6	4,256.2	4,206.8	4,189.2	4,032.9	4,080.2	4,079.1	4,110.8	**49,893.1**
1977													
Non-Communist	3,070.9	3,113.4	3,159.9	3,148.8	3,130.1	3,067.2	2,915.9	2,829.5	2,887.2	3,011.7	3,210.2	3,273.3	**36,818.1**
Total World	4,403.1	4,357.7	4,400.6	4,471.6	4,394.6	4,310.1	4,205.4	4,136.1	4,204.0	4,506.0	4,728.8	4,802.3	**52,920.3**
1978													
Non-Communist	3,378.9	3,483.3	3,231.2	3,046.5	2,912.6	2,940.1	2,962.5	2,825.0	3,256.4	2,943.7	2,963.2	2,979.5	**36,922.9**
Total World	4,856.8	4,967.5	4,714.5	4,485.7	4,366.0	4,349.0	4,405.3	4,279.0	4,660.1	4,480.8	4,498.2	4,574.6	**54,637.5**
1979													
Non-Communist	3,034.9	3,125.7	3,218.9	3,380.2	3,125.9	2,950.9	3,204.4	3,210.3	3,066.9	3,068.3	3,076.1	3,060.2	**37,522.7**
Total World	4,664.5	4,732.1	4,840.8	4,960.6	4,712.3	4,531.9	4,816.7	4,826.2	4,697.3	4,791.3	4,795.6	4,836.3	**57,205.6**
1980													
Non-Communist	3,191.2	3,221.6	3,149.2	3,171.0	3,172.4	3,243.3	3,236.8	3,062.7	3,188.1	3,132.4	2,971.2	2,986.1	**37,726.0**
Total World	4,999.7	4,953.5	4,943.8	4,908.6	4,921.1	4,880.2	4,930.4	4,785.6	4,932.6	4,875.4	4,770.0	4,837.8	**58,738.7**
1981													
Non-Communist	3,300.5	3,280.2	3,323.2	3,348.0	3,403.0	3,404.0	3,391.0	3,099.0	3,096.0	2,996.0	2,992.0	3,034.0	**38,666.9**
Total World	4,949.6	4,808.2	4,972.2	4,923.0	4,946.0	4,912.0	4,898.0	4,666.0	4,663.0	4,659.0	4,655.0	4,729.0	**57,781.0**
1982													
Non-Communist	3,381.0	3,241.3	3,492.5	3,205.2	3,059.6	2,910.2	2,761.4	2,741.6	2,668.7	2,845.0	2,998.4	3,172.3	**36,477.2**
Total World	5,097.0	4,833.3	5,236.0	4,855.5	4,732.5	4,531.9	4,390.2	4,388.0	4,325.7	4,595.5	4,741.0	5,010.3	**56,736.9**
1983													
Non-Communist	3,169.0	2,967.9	3,092.6	2,856.5	2,779.5	2,538.1	2,524.0	2,525.2	2,581.4	2,834.4	2,971.4	3,285.2	**34,125.2**
Total World	5,017.2	4,657.6	4,965.4	4,508.7	4,571.1	4,269.7	4,259.2	4,285.1	4,278.7	4,703.7	4,826.5	5,310.6	**55,743.5**
1984													
Non-Communist	3,377.9	3,233.0	3,265.5	2,991.2	2,881.2	2,746.9	2,777.0	2,756.1	2,781.5	2,978.3	3,091.4	3,389.7	**36,269.7**
Total World	5,331.3	5,087.5	5,229.4	4,877.5	4,785.1	4,576.7	4,652.7	4,660.0	4,681.9	5,005.8	5,108.2	5,473.6	**59,469.7**
1985													
Non-Communist	3,633.3	3,251.2	3,3[illegible]0.1	3,070.2	3,075.3	2,849.1	2,815.9	2,782.2	2,809.4	3,031.0	3,287.7	3,407.9	**37,393.3**
Total World	5,777.2	5,239.8	5,534.6	5,136.4	5,207.4	4,854.1	4,880.9	4,868.4	4,920.3	5,261.9	5,480.4	5,685.3	**62,846.7**
1986													
Non-Communist	3,506.1	3,314.3	3,326.3	2,992.8	2,902.9	2,765.6	2,785.1	2,776.7	2,777.5	2,991.6	3,236.3	3,593.1	**36,968.3**
Total World	5,818.5	5,446.7	5,681.1	5,213.5	5,144.7	4,908.6	4,981.1	4,983.2	4,991.1	5,332.3	5,578.3	6,036.2	**64,115.3**

Data from Oil & Gas Journal Energy Database

Source: Oil & Gas Journal

Worldwide Natural Gas Consumption
Billions of cubic feet

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
United States	20,843.2	20,400.8	20,511.4	21,154.5	20,773.6	20,282.0	18,811.3	17,840.4	19,106.3	18,426.2	17,062.1
Canada	1,888.5	1,880.3	1,937.7	2,052.4	2,019.6	1,958.1	2,003.2	1,937.7	1,958.1	1,835.2	1,761.5
North America	22,731.7	22,281.1	22,449.1	23,206.9	22,793.2	22,240.1	20,814.5	19,778.1	21,064.4	20,261.4	18,823.6
Austria	168.0	172.1	180.2	176.2	172.1	159.8	155.7	155.7	172.1	184.3	184.3
Belgium & Luxembourg	421.9	413.8	405.6	421.9	421.9	389.2	319.5	335.9	348.2	344.1	311.3
Denmark	NA	NA	NA	NA	NA	NA	NA	NA	4.1	24.6	45.1
Finland	32.8	28.7	32.8	32.8	32.8	24.6	24.6	24.6	28.7	32.8	41.0
France	778.3	835.7	856.2	954.5	966.8	1,003.7	983.2	909.4	962.7	954.5	958.6
Greece	NA	NA	NA	NA	NA	NA	NA	NA	4.1	4.1	4.1
Ireland	NA	NA	NA	12.3	20.5	36.9	57.4	65.5	69.6	73.7	57.4
Italy	901.2	884.9	921.7	938.1	938.1	934.0	901.2	925.8	1,085.6	1,114.3	1,151.1
Netherlands	1,351.9	1,368.2	1,335.5	1,356.0	1,241.3	1,229.0	1,245.3	1,208.5	1,278.1	1,331.4	1,319.1
Spain	61.4	57.4	61.4	57.4	73.7	86.0	94.2	102.4	81.9	86.0	98.3
Sweden	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.1	8.2
Switzerland	20.5	24.6	28.7	32.8	32.8	32.8	32.8	36.9	41.0	41.0	36.9
Turkey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.3
United Kingdom	1,417.4	1,511.6	1,552.6	1,716.5	1,696.0	1,736.9	1,728.7	1,802.5	1,843.4	1,982.7	2,011.4
West Germany	1,487.0	1,593.6	1,708.3	1,892.6	1,818.9	1,696.0	1,556.7	1,601.7	1,683.7	1,683.7	1,646.8
Western Europe	6,640.4	6,890.6	7,083.0	7,591.1	7,414.9	7,328.9	7,099.3	7,168.9	7,603.2	7,861.3	7,885.9
Australia	217.1	245.8	266.3	319.5	364.6	434.2	446.5	458.8	479.3	508.0	565.3
New Zealand	36.9	57.4	57.4	36.9	36.9	41.0	53.3	86.0	106.5	135.2	168.0
Australasia	254.0	303.2	323.7	356.4	401.5	475.2	499.8	544.8	585.8	643.2	733.3
Japan	381.0	446.5	647.3	831.6	958.6	991.4	1,011.8	1,032.3	1,376.4	1,470.7	1,491.1
Total OECD	30,007.1	29,921.4	30,503.1	31,986.0	31,568.2	31,035.6	29,425.4	28,524.1	30,629.8	30,236.6	28,933.9
Latin America	1,659.1	1,622.2	1,732.8	2,011.4	2,203.9	2,285.9	2,457.9	2,584.9	2,638.2	2,888.1	2,916.7
Middle East	1,102.0	1,179.8	1,233.1	1,269.9	1,396.9	1,446.1	1,401.0	1,384.6	1,675.5	1,888.5	1,966.3
Africa	208.9	282.7	454.7	675.9	700.5	872.6	934.0	1,032.3	1,020.0	1,093.8	1,167.5
South Asia	360.5	385.1	397.4	262.2	299.0	364.6	483.4	520.3	626.8	675.9	704.6
South East Asia	72.1	188.4	241.7	282.7	286.8	331.8	426.0	516.2	610.4	721.0	762.0
Other Non-Communist	3,402.6	3,658.2	4,059.7	4,502.1	4,887.1	5,301.0	5,702.3	6,038.3	6,570.9	7,267.3	7,517.1
Total Non-Communist	33,409.7	33,579.6	34,562.8	36,488.1	36,455.3	36,336.6	35,127.7	34,562.4	37,200.7	37,503.9	36,451.0
China	401.5	446.5	479.3	508.0	479.3	426.0	389.2	438.3	442.4	471.1	495.7
USSR	10,368.3	11,109.8	11,847.2	12,576.4	13,436.7	14,489.5	15,566.9	16,591.0	17,819.9	19,442.2	20,699.8
Others	2,654.6	2,703.7	2,843.0	2,990.5	3,215.8	3,310.0	3,383.7	3,527.1	3,719.7	3,789.3	4,092.4
Total Communist	13,424.4	14,260.0	15,169.5	16,074.9	17,131.8	18,225.5	19,339.8	20,556.4	21,982.0	23,702.6	25,287.9
Total World	46,934.1	47,839.6	49,732.3	52,563.0	53,587.1	54,562.1	54,467.5	55,118.8	59,182.7	61,206.5	61,738.9

Data from Oil & Gas Journal Energy Database
Source: British Petroleum

Notes

Price

The one category of energy industry information that has been of greatest interest over the past 10-15 years has been prices. For an extended period of time prior to the 1970's the price of oil and energy in general did not vary to any great extent. Over this period price was hot a major consideration of industry analysts -- it was viewed almost as a constant.

But this all changed abruptly in the early 1970's. OPEC countries gained control of their domestic production, which constituted a major percentage of world export crude. They engineered a substantial increase in crude oil prices. U.S. domestic wellhead prices followed this trend, particularly after price controls were lifted.

The posted price of Saudi Arabian light crude jumped from $1.80/bbl. in 1970 and $2.48/bbl. in 1972 to $12.38/bpl. in 1975. It surged upward again to $24/bbl. in 1979 and peaked at $34/bbl. in 1981 and 1982. This was an overall increase of 1789% in little more than 10 years. This got analysts' attention.

U.S. wellhead prices moved up a bit slower primarily due to government price controls. The average U.S. wellhead price was $3.18/bbl. in 1970. By 1975 it had increased to $7.56/bbl. But after price controls were lifted it surged to close to international levels and peaked at $31.77/bbl. in 1981.

Product prices followed this upward surge and influenced the spending decisions of all consumers. The price of motor gasoline, probably the most visible product price, moved up from 53.2 cents per gal. in 1974 for leaded regular to $1.311/gal. in 1981.

This rapid rise in oil prices seemed to set off a surge in inflation and other energy prices also began to increase. Wellhead prices of natural gas rose from $0.22/mcf in 1973 to $2.66/mcf in 1984.

The price increase also produced a conservation response. Conservation reduced demand sharply and eventually exerted downward pressure on prices. By 1985 the U.S. average wellhead price for crude had slipped to $24.08/bbl. Motor gasoline prices had also declined, to an average of $1.115/gal.

OPEC tried to recapture market share in 1986 and the market was flooded with crude oil. World oil prices fell dramatically and U.S. prices responded. The average price of U.S. crude oil fell 47% to $12.66/bbl. In July 1986 it was as low as $9.39/bbl., down 62% from year end 1985.

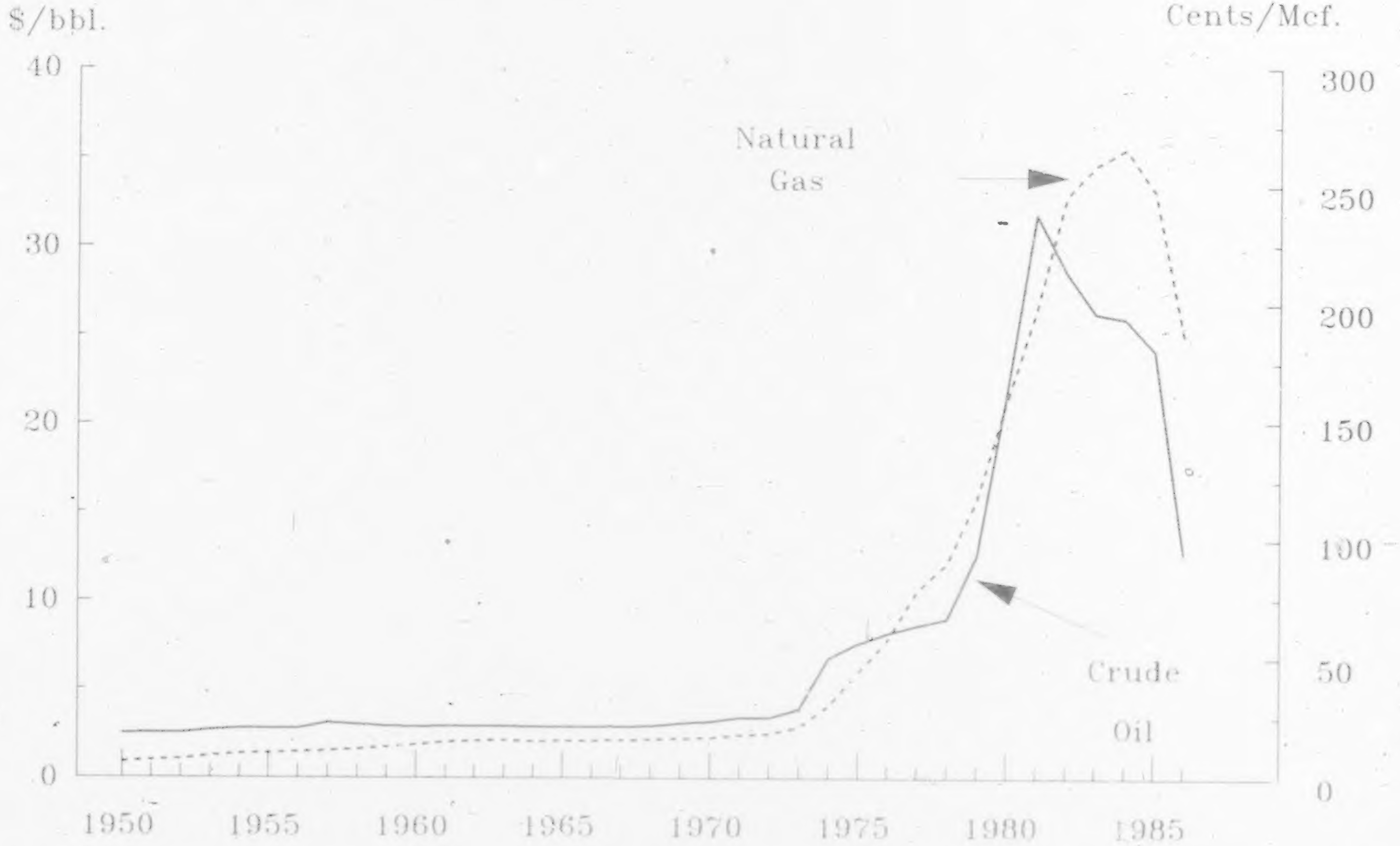
OPEC abandoned their market share efforts and adopted a quota system. Prices firmed in late 1986 and into 1987. But prices were now at a much lower level which might serve to stimulate demand.

This chapter of the Energy Statistics Sourcebook provides detailed data on prices. Both domestic and international crude oil prices are given. This chapter contains detailed product prices for major petroleum products as well as natural gas prices at the wellhead and to consumers. This chapter of the Sourcebook includes all of the key data necessary for factoring price into any industry analysis.

Price

Crude Oil Wellhead Price, Total U.S., Annual, 305
Crude Oil Wellhead Price, Total U.S., Monthly, 306
Refiners' Acquisition Cost of Crude Oil, Total U.S., Monthly, 307
Posted Price of West Texas Intermediate, Monthly, 308
Crude Oil Wellhead Price, By State, Annual, 309
Landed Cost of Crude Oil Imports, By Country, Total U.S., Annual, 315
Weighted Average Crude Oil Posted Price, OPEC, Non-OPEC, World, U.S. Imports, Monthly, 316
Posted Prices of Crude Oil, Selected Crude Types, Annual, 317
Posted & Spot Price of Saudi Light Crude Oil, Quarterly, 318
Natural Gas Wellhead Price, Total U.S., Annual, 319
Natural Gas Wellhead Price, Total U.S., Monthly, 320
Price of Imported Natural Gas, Total U.S., Monthly, 321
Natural Gas Wellhead Price, By State, Annual, 322
Natural Gas Price, By Sector, Total U.S., Annual, 324
Price of Natural Gas for Residential Use, By IEA Country, Annual, 325
Leaded Motor Gasoline Price, Total U.S., Monthly, 326
Unleaded Motor Gasoline Price, Total U.S., Monthly, 327
Motor Gasoline Price, By Type, Total U.S., Monthly, 329
Wholesale Product Prices, Distillate, Kerosine, Residual, Total U.S., Monthly, 330
Retail Product Prices, Distillate, Residual, Propane, Total U.S., Monthly, 331
Retail Product Prices, Kerosine, Kerosine-Type Jet Fuel, Total U.S., Monthly, 332
Spot Market Product Prices, N.Y. Harbor, Quarterly, 333
Motor Gasoline and Heating Oil Prices, Current and Constant Dollars, Total U.S., Annual, 334
Motor Gasoline Price, By IEA Country, Annual, 336
Home Heating Oil Price, By IEA Country, Annual, 337
Price of Heavy Fuel Oil for Electric Generation, By IEA Country, Annual, 338
Fossil Fuel Prices, Total U.S., Annual, 339
Cost of Fossil Fuels to Electric Utilities, Total U.S., Monthly, 341
Electricity Prices, By Sector, Total U.S., Annual, 342
Price of Electricity for Residential Use, By IEA Country, Annual, 343

Wellhead Crude and Natural Gas Prices



Source: BOM, EIA

U.S. Average Crude Oil Price
At the Wellhead
Dollars per Barrel

Year	$/bbl	Year	$/bbl	Year	$/bbl
1859	20.00	1902	0.80	1945	1.22
1860	9.60	1903	0.94	1946	1.41
1861	0.52	1904	0.86	1947	1.93
1862	1.05	1905	0.62	1948	2.60
1863	3.15	1906	0.73	1949	2.54
1864	8.15	1907	0.72	1950	2.51
1865	6.59	1908	0.72	1951	2.53
1866	3.75	1909	0.70	1952	2.53
1867	2.40	1910	0.61	1953	2.68
1868	3.62	1911	0.61	1954	2.78
1869	5.60	1912	0.74	1955	2.77
1870	3.90	1913	0.95	1956	2.79
1871	4.40	1914	0.81	1957	3.09
1872	3.75	1915	0.64	1958	3.01
1873	1.80	1916	1.10	1959	2.90
1874	1.15	1917	1.56	1960	2.88
1875	0.97	1918	1.98	1961	2.89
1876	2.52	1919	2.01	1962	2.90
1877	2.38	1920	3.07	1963	2.89
1878	1.17	1921	1.73	1964	2.88
1879	0.86	1922	1.61	1965	2.86
1880	0.34	1923	1.34	1966	2.88
1881	0.92	1924	1.43	1967	2.92
1882	0.78	1925	1.68	1968	2.94
1883	1.10	1926	1.88	1969	3.09
1884	0.85	1927	1.30	1970	3.18
1885	0.88	1928	1.17	1971	3.39
1886	0.71	1929	1.27	1972	3.39
1887	0.67	1930	1.19	1973	3.89
1888	0.65	1931	0.65	1974	6.74
1889	0.77	1932	0.87	1975	7.56
1890	0.77	1933	0.67	1976	8.14
1891	0.56	1934	1.00	1977	8.57
1892	0.51	1935	0.97	1978	8.96
1893	0.60	1936	1.09	1979	12.51
1894	0.72	1937	1.18	1980	21.59
1895	1.09	1938	1.13	1981	31.77
1896	0.96	1939	1.02	1982	28.52
1897	0.68	1940	1.02	1983	26.19
1898	0.80	1941	1.14	1984	25.88
1899	1.13	1942	1.19	1985	24.09
1900	1.19	1943	1.20	1986	12.60
1901	0.96	1944	1.21		

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, American Petroleum Institute,
Energy Information Administration

U.S. Average Price of Crude Oil at the Wellhead
Dollars per barrel

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1974	6.95	6.87	6.77	6.77	6.87	6.85	6.80	6.71	6.70	6.97	6.97	7.09	**6.86**
1975	7.61	7.47	7.57	7.55	7.52	7.49	7.75	7.73	7.75	7.83	7.80	7.93	**7.67**
1976	8.63	7.87	7.79	7.86	7.89	7.99	8.04	8.03	8.39	8.46	8.62	8.62	**8.18**
1977	8.50	8.57	8.45	8.40	8.49	8.44	8.48	8.62	8.63	8.72	8.72	8.77	**8.57**
1978	8.68	8.84	8.80	8.82	8.81	9.05	8.96	9.05	9.15	9.17	9.20	9.47	**9.00**
1979	9.46	9.69	9.83	10.33	10.71	11.70	13.39	14.00	14.57	15.11	15.52	17.03	**12.61**
1980	17.86	18.81	19.34	20.29	21.01	21.53	22.26	22.63	22.59	23.23	23.92	25.80	**21.61**
1981	28.85	34.14	34.70	34.05	32.71	31.71	31.13	31.13	31.13	31.00	30.98	30.72	**31.85**
1982	30.87	29.76	28.31	27.65	27.67	28.11	28.33	28.18	27.99	28.74	28.70	28.12	**28.54**
1983	27.22	26.41	26.08	25.85	26.08	25.98	25.86	26.03	26.08	26.04	26.09	25.88	**26.13**
1984	25.93	26.06	26.05	25.93	2[illegible].00	26.09	26.11	26.02	25.97	25.92	25.44	25.05	**25.88**
1985	24.26	23.64	23.89	24.19	24.18	24.07	24.04	23.99	23.96	24.10	24.27	24.51	**24.09**
1986	23.38	17.84	12.78	10.83	10.90	10.84	9.39	9.92	11.20	11.10	11.15	11.83	**12.60**

Data from Oil & Gas Journal Energy Database
Source: Energy Information Administration

U.S. Average Refiner's Acquisition Cost of Crude Oil
Dollars per barrel

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1977													
Domestic	9.23	9.24	9.32	9.21	9.21	9.34	9.32	9.54	9.75	9.95	10.17	10.15	**9.54**
Imported	14.11	14.50	14.54	14.36	14.62	14.63	14.44	14.68	14.50	14.56	14.61	14.76	**14.53**
Composite	11.64	11.80	11.88	11.75	11.87	11.98	11.90	12.01	12.01	12.12	12.18	12.27	**11.95**
1978													
Domestic	10.14	10.25	10.46	10.55	10.60	10.72	10.58	10.65	10.65	10.78	10.87	11.00	**10.60**
Imported	14.52	14.41	14.57	14.40	14.51	14.54	14.49	14.46	14.53	14.63	14.74	14.94	**14.56**
Composite	12.13	12.19	12.23	12.20	12.35	12.48	12.45	12.46	12.57	12.62	12.76	12.93	**12.45**
1979													
Domestic	11.02	11.34	11.45	12.06	12.41	13.24	14.61	15.73	16.05	16.93	17.65	18.84	**14.28**
Imported	15.50	15.88	16.41	17.58	19.00	21.03	23.09	23.98	25.06	25.05	27.02	28.91	**21.54**
Composite	13.11	13.42	13.70	14.52	15.40	17.00	18.58	19.75	20.14	20.68	22.04	23.63	**17.66**
1980													
Domestic	19.78	21.22	22.07	22.89	23.63	24.48	25.05	24.98	25.37	26.21	26.51	28.55	**24.23**
Imported	30.75	32.40	33.42	33.54	34.33	34.48	34.51	34.44	34.46	34.63	35.09	35.63	**33.97**
Composite	24.81	26.11	26.88	27.09	27.85	28.80	28.73	28.70	28.96	29.56	29.79	31.39	**28.22**
1981													
Domestic	32.71	36.27	36.97	35.58	35.21	34.20	33.76	33.79	33.47	33.48	33.49	33.51	**34.37**
Imported	38.85	39.00	38.31	38.41	37.84	37.03	36.58	35.82	35.44	35.43	36.21	35.95	**37.07**
Composite	34.86	37.28	37.48	36.58	36.11	35.03	34.70	34.46	34.11	34.07	34.33	34.33	**35.28**
1982													
Domestic	33.39	32.71	31.08	30.27	30.37	30.79	30.92	30.85	30.76	31.38	31.57	30.80	**31.24**
Imported	35.54	35.48	34.07	32.82	32.78	33.79	33.44	32.95	33.03	33.28	33.09	32.85	**33.59**
Composite	33.95	33.40	31.81	30.83	31.02	31.74	31.74	31.45	31.40	31.98	32.07	31.29	**31.89**
1983													
Domestic	31.40	30.76	28.43	27.95	28.53	29.23	28.76	28.58	28.69	28.88	28.76	28.62	**29.05**
Imported	31.40	30.76	28.43	27.95	28.53	29.23	28.76	29.50	29.54	29.67	29.09	29.30	**29.35**
Composite	30.73	29.49	28.64	28.33	28.64	28.85	28.75	28.88	28.97	29.14	28.85	28.83	**29.01**
1984													
Domestic	28.62	28.76	28.75	28.63	28.65	28.58	28.70	28.59	28.56	28.46	28.10	27.95	**28.53**
Imported	28.80	28.91	28.95	29.11	29.26	29.19	29.00	28.92	28.70	28.79	28.74	28.02	**28.87**
Composite	28.67	28.81	28.81	28.77	28.83	28.77	28.79	28.69	28.60	28.56	28.30	27.97	**28.63**
1985													
Domestic	26.89	26.35	26.60	26.79	26.91	26.60	26.60	26.46	26.41	26.60	26.73	26.93	**26.66**
Imported	27.49	26.99	27.20	27.59	27.60	27.25	26.57	26.61	26.56	26.79	27.12	26.21	**27.00**
Composite	27.02	26.49	26.76	27.03	27.12	26.76	26.59	26.50	26.45	26.66	26.86	26.72	**26.75**
1986													
Domestic	25.94	20.42	15.11	13.06	12.99	13.11	11.82	11.95	13.27	13.20	13.21	13.67	**14.81**
Imported	24.92	18.02	14.21	13.14	13.17	12.25	10.91	11.87	12.85	12.78	13.46	14.17	**14.31**
Composite	25.64	19.81	14.87	13.08	13.05	12.82	11.51	11.92	13.11	13.05	13.30	13.85	**14.67**

Data from Oil & Gas Journal Energy Database
Source: Energy Information Administration

Posted Price for West Texas Intermediate
Beginning of the Month
Dollars per barrel

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1946	1.17	1.17	1.17	1.27	1.27	1.27	1.27	1.52	1.52	1.52	1.52	1.62	**1.36**
1947	1.62	1.62	1.62	1.87	1.87	1.87	1.87	1.87	1.87	1.87	2.07	2.07	**1.84**
1948	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	**2.57**
1949	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	**2.57**
1950	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	**2.57**
1951	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	**2.57**
1952	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	**2.57**
1953	2.57	2.57	2.57	2.57	2.57	2.82	2.82	2.82	2.82	2.82	2.82	2.82	**2.72**
1954	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	**2.82**
1955	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	**2.82**
1956	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	**2.82**
1957	2.82	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.00	**3.04**
1958	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.00	3.00	**3.06**
1959	3.00	3.00	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	**2.98**
1960	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	**2.97**
1961	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	**2.97**
1962	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	**2.97**
1963	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	2.97	**2.97**
1964	2.97	2.97	2.97	2.97	2.97	2.97	2.92	2.92	2.92	2.92	2.92	2.92	**2.95**
1965	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	**2.92**
1966	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.97	2.97	2.97	2.97	**2.94**
1967	2.97	3.00	3.00	3.00	3.00	3.00	3.00	3.07	3.07	3.07	3.07	3.07	**3.03**
1968	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	**3.07**
1969	3.07	3.07	3.25	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	**3.30**
1970	3.35	3.35	3.35	3.35	3.35	3.35	3.31	3.31	3.31	3.31	3.31	3.56	**3.35**
1971	3.56	3.56	3.56	3.56	3.56	3.56	3.56	3.56	3.56	3.56	3.56	3.56	**3.56**
1972	3.56	3.56	3.56	3.56	3.56	3.56	3.56	3.56	3.56	3.56	3.56	3.56	**3.56**
1973	3.56	3.56	3.56	3.56	3.56	3.56	3.56	4.31	4.31	4.31	4.31	4.31	**3.87**
1974	10.11	10.11	10.11	10.11	10.11	10.11	10.11	10.11	10.11	11.16	11.16	11.16	**10.37**
1975	11.16	11.16	11.16	11.16	11.16	11.16	11.16	11.16	11.16	11.16	11.16	11.16	**11.16**
1976	11.16	12.03	12.10	12.17	12.17	12.17	12.17	12.17	13.90	13.90	13.90	13.90	**12.65**
1977	13.90	13.90	13.90	13.90	13.90	13.90	13.90	14.85	14.85	14.85	14.85	14.85	**14.30**
1978	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	**14.85**
1979	14.85	15.85	15.85	15.85	18.10	19.10	21.75	26.50	28.50	29.00	31.00	32.50	**22.40**
1980	32.50	37.00	38.00	39.50	39.50	39.50	39.50	38.00	36.00	36.00	36.00	37.00	**37.38**
1981	38.00	38.00	38.00	38.00	38.00	36.00	36.00	36.00	36.00	35.00	36.00	35.00	**36.67**
1982	35.00	34.00	33.00	33.00	33.00	32.00	32.00	32.00	32.00	32.00	33.00	32.00	**32.75**
1983	32.00	31.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	**30.25**
1984	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	29.00	29.00	**29.83**
1985	29.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00	**28.08**
1986	28.00	25.00	18.75	15.00	13.25	14.00	14.00	12.25	14.25	14.25	14.25	14.25	**16.44**

Data from Oil & Gas Journal Energy Database
Source: Major U.S. Refiners

U.S. Crude Oil Price
By State
Dollars per barrel

	1901	1902	1903	1904	1905	1906	1907	1908	1909
California	0.57	0.35	0.30	0.28	0.25	0.29	0.37	0.52	0.55
Colorado	1.00	1.22	0.89	1.15	0.90	0.80	0.82	0.91	1.02
Illinois	5.00	5.00	NA	NA	0.64	0.75	0.68	0.67	0.64
Indiana	0.84	0.87	1.14	1.08	0.86	0.88	0.89	0.98	0.87
Kansas	0.86	0.88	1.06	0.97	0.55	0.44	0.40	0.41	0.39
Kentucky	0.81	0.76	0.88	0.99	0.78	0.85	1.05	0.97	0.81
Louisiana	NA	0.34	0.45	0.36	0.18	0.39	0.81	0.61	0.66
New York	1.21	1.37	1.59	1.63	1.39	1.60	1.76	1.79	1.66
Ohio	0.95	0.99	1.28	1.26	1.04	1.15	1.21	1.31	1.24
Oklahoma	NA	0.88	1.03	0.97	NA	NA	0.40	0.39	0.36
Pennsylvania	1.22	1.27	1.60	1.64	1.40	1.62	1.76	1.79	1.66
Texas	0.28	0.22	0.42	0.37	0.27	0.52	0.84	0.60	0.71
West Virginia	1.21	1.26	1.59	1.63	1.39	1.60	1.74	1.78	1.64
Wyoming	7.00	7.00	7.00	7.00	6.10	7.00	2.34	1.57	1.72
Total U.S.	0.96	0.80	0.94	0.86	0.62	0.73	0.72	0.72	0.70

	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919
California	0.49	0.48	0.45	0.47	0.48	0.42	0.59	0.92	1.22	1.41
Colorado	1.02	1.01	0.97	0.93	0.90	0.88	1.10	1.06	1.32	1.51
Illinois	0.59	0.63	0.85	1.30	1.16	0.98	1.65	1.99	2.34	2.48
Indiana	0.73	0.74	0.91	1.34	1.16	0.93	1.57	1.94	2.31	2.35
Kansas	0.39	0.48	0.69	0.95	0.78	0.60	1.18	1.84	2.21	2.33
Kentucky	0.69	0.70	0.88	1.29	0.99	0.96	1.82	2.28	2.58	2.65
Louisiana	0.52	0.53	0.76	0.98	0.90	0.59	0.96	1.60	1.72	1.56
Montana	NA	NA	NA	NA	NA	NA	0.98	1.47	1.82	1.90
New York	1.34	1.31	1.60	2.41	1.88	1.57	2.51	3.24	4.09	4.11
Ohio	1.07	1.08	1.35	2.00	1.57	1.29	2.09	2.72	3.22	3.02
Oklahoma	0.38	0.47	0.67	0.94	0.79	0.58	1.20	1.69	2.24	2.12
Pennsylvania	1.35	1.32	1.64	2.49	1.91	1.59	2.52	3.25	4.00	4.14
Texas	0.74	0.69	0.75	0.98	0.75	0.52	0.93	1.32	1.93	1.99
West Virginia	1.34	1.30	1.64	2.49	1.91	1.56	2.51	3.25	4.02	4.19
Wyoming	0.81	0.66	0.51	0.49	0.47	0.52	0.91	1.23	1.44	1.48
Total U.S.	0.61	0.61	0.74	0.95	0.81	0.64	1.10	1.56	1.98	2.01

U.S. Crude Oil Price
By State
Dollars per barrel

	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929
Arkansas	NA	1.22	1.61	0.69	0.94	0.89	1.11	1.06	0.86	0.88
California	1.73	1.80	1.25	0.92	1.20	1.42	1.54	1.13	0.99	1.10
Colorado	1.79	1.22	1.18	1.19	1.10	1.48	1.84	1.20	0.99	1.01
Illinois	3.67	2.05	2.06	1.87	1.76	1.94	2.22	1.67	1.54	1.65
Indiana	3.61	2.08	2.05	1.82	1.84	1.95	2.19	1.63	1.50	1.64
Kansas	3.42	1.88	1.77	1.63	1.54	1.94	2.26	1.42	1.36	1.46
Kentucky	3.92	1.86	1.98	1.97	1.97	2.32	2.43	1.67	1.61	1.70
Louisiana	3.15	1.57	1.50	1.47	1.44	1.60	1.65	1.90	1.18	1.25
Michigan	NA	NA	NA	NA	NA	2.50	2.69	1.90	1.55	1.36
Montana	3.07	1.57	1.65	1.47	1.33	1.57	1.32	1.40	1.59	1.82
New Mexico	NA	NA	NA	NA	1.30	1.71	1.96	1.37	1.36	1.19
New York	6.00	3.30	3.14	3.31	3.64	3.70	3.68	3.17	3.36	3.90
Ohio	5.05	2.93	2.56	2.41	2.52	2.53	2.64	1.97	2.06	2.34
Oklahoma	3.36	1.60	1.73	1.74	1.57	1.97	2.31	1.43	1.39	1.43
Pennsylvania	5.98	3.33	3.21	3.33	3.61	3.62	3.56	3.06	3.27	3.79
Texas	3.24	1.53	1.59	1.48	1.52	1.81	1.85	1.14	0.92	1.09
West Virginia	6.08	3.39	3.26	3.27	3.52	3.48	3.46	2.89	3.03	3.60
Wyoming	2.97	1.22	1.27	1.09	1.23	1.76	1.98	1.40	1.28	1.28
Total U.S.	3.07	1.73	1.61	1.34	1.43	1.68	1.88	1.30	1.17	1.27

	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Arkansas	0.88	0.49	0.64	0.42	0.72	0.72	0.78	0.97	0.93	0.79
California	1.20	0.72	0.81	0.83	0.92	0.82	1.01	1.02	1.03	1.02
Colorado	0.89	0.53	0.77	0.59	0.93	0.91	1.01	1.12	1.09	0.95
Illinois	1.59	0.89	1.01	0.87	1.11	1.11	1.20	1.33	1.25	1.07
Indiana	1.62	0.89	1.03	0.88	1.15	1.13	1.23	1.35	1.27	0.98
Kansas	1.32	0.69	0.91	0.66	1.03	1.03	1.13	1.25	1.20	1.04
Kentucky	1.50	0.82	0.94	0.82	1.16	1.14	1.29	1.40	1.30	1.05
Louisiana	1.12	0.65	0.85	0.61	0.97	0.99	1.06	1.21	1.16	1.05
Michigan	1.32	0.75	0.76	0.90	1.02	1.04	1.34	1.32	1.03	0.91
Mississippi	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.88
Montana	1.62	0.96	1.04	0.98	1.22	1.34	1.31	1.26	1.05	0.98
New Mexico	0.90	0.43	0.61	0.46	0.75	0.78	0.84	0.94	0.93	0.82
New York	2.70	2.02	1.89	1.87	2.46	2.14	2.44	2.58	1.89	2.09
Ohio	1.84	1.05	1.17	1.07	1.61	1.45	1.58	1.64	1.17	1.14
Oklahoma	1.29	0.66	0.90	0.66	1.02	1.02	1.12	1.24	1.20	1.04
Pennsylvania	2.61	1.98	1.89	1.87	2.43	2.14	2.43	2.57	1.88	2.08
Texas	0.99	0.51	0.83	0.56	0.95	0.94	1.05	1.16	1.13	0.99
West Virginia	2.33	1.58	1.56	1.54	2.10	1.85	2.13	2.29	1.52	1.68
Wyoming	1.25	0.75	0.82	0.59	0.84	0.85	0.94	0.98	0.95	0.85
Total U.S.	1.19	0.65	0.87	0.67	1.00	0.97	1.09	1.18	1.13	1.02

U.S. Crude Oil Price
By State
Dollars per barrel

	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
Arkansas	0.84	0.93	0.99	0.99	1.05	1.07	1.26	1.82	2.48	2.48
California	0.97	1.04	1.03	1.05	1.06	1.06	1.23	1.72	2.42	2.26
Colorado	0.91	1.07	1.11	1.13	1.15	1.15	1.32	1.89	2.56	2.55
Illinois	1.06	1.30	1.36	1.37	1.39	1.40	1.59	2.10	2.77	2.77
Indiana	1.04	1.27	1.35	1.35	1.38	1.42	1.59	2.10	2.77	2.77
Kansas	1.04	1.15	1.20	1.20	1.22	1.24	1.42	1.93	2.60	2.58
Kentucky	1.04	1.30	1.36	1.37	1.42	1.48	1.61	2.11	2.77	2.76
Louisiana	1.04	1.14	1.19	1.22	1.22	1.23	1.45	2.01	2.68	2.66
Michigan	1.02	1.34	1.39	1.41	1.43	1.45	1.62	2.13	2.86	2.75
Mississippi	0.85	0.91	0.92	0.98	1.02	1.01	1.24	1.76	2.41	2.46
Montana	0.99	1.06	1.11	1.20	1.24	1.28	1.44	1.94	2.58	2.58
Nebraska	0.80	0.84	0.90	0.90	1.10	1.21	1.35	1.85	2.43	2.21
New Mexico	0.83	0.94	1.00	1.00	1.00	1.01	1.21	1.77	2.45	2.44
New York	2.32	2.57	2.95	3.01	3.33	3.76	3.83	4.21	4.49	3.56
Ohio	1.30	1.64	1.90	2.05	2.23	2.56	2.65	3.36	4.22	2.93
Oklahoma	1.04	1.13	1.19	1.19	1.23	1.27	1.44	1.92	2.58	2.56
Pennsylvania	2.29	2.54	2.94	2.98	3.29	3.73	3.82	4.19	4.96	3.57
Texas	1.00	1.12	1.17	1.21	1.21	1.21	1.41	1.95	2.61	2.59
West Virginia	1.86	2.15	2.53	2.59	2.90	3.34	3.40	3.90	4.76	3.09
Wyoming	0.80	0.86	0.88	0.98	1.00	1.01	1.14	1.68	2.33	2.28
Total U.S.	1.02	1.14	1.19	1.20	1.21	1.22	1.41	1.93	2.60	2.54

	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Alaska	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.58
Arkansas	2.46	2.48	2.46	2.60	2.73	2.71	2.69	2.92	2.82	2.77
California	2.16	2.25	2.23	2.49	2.55	2.50	2.62	3.05	2.90	2.55
Colorado	2.55	2.54	2.55	2.71	2.77	2.75	2.78	3.02	2.99	2.90
Illinois	2.77	2.77	2.76	2.89	2.98	2.91	2.93	3.12	3.00	2.99
Indiana	2.76	2.75	2.75	2.93	2.96	2.91	2.93	3.13	3.01	2.97
Kansas	2.57	2.57	2.56	2.69	2.81	2.80	2.79	3.01	3.00	2.91
Kentucky	2.76	2.77	2.76	2.91	2.92	2.89	2.91	3.13	2.95	2.81
Louisiana	2.65	2.65	2.64	2.81	2.93	2.93	2.93	3.32	3.26	3.16
Michigan	2.70	2.72	2.66	2.92	2.96	2.92	2.87	3.06	2.94	2.94
Mississippi	2.31	2.24	2.23	2.36	2.50	2.46	2.45	2.91	2.86	2.84
Montana	2.52	2.47	2.25	2.18	2.20	2.26	2.58	2.70	2.65	2.56
Nebraska	2.13	2.33	2.44	2.71	2.75	2.75	2.79	2.98	2.94	2.88
New Mexico	2.43	2.45	2.47	2.63	2.75	2.74	2.75	2.99	2.98	2.85
New York	3.78	4.23	4.23	4.28	3.42	3.55	4.40	4.73	4.23	4.24
North Dakota	NA	NA	2.00	2.00	2.14	2.89	2.90	3.13	2.99	2.80
Ohio	3.03	3.05	2.99	2.69	2.76	2.89	3.14	3.23	2.89	2.87
Oklahoma	2.57	2.57	2.56	2.70	2.79	2.78	2.78	3.03	2.96	2.92
Pennsylvania	3.82	4.25	4.25	4.29	3.42	3.54	4.34	4.73	4.10	4.20
Texas	2.59	2.58	2.58	2.73	2.84	2.84	2.83	3.11	3.06	2.98
Utah	NA	NA	NA	NA	NA	NA	NA	NA	2.99	2.86
West Virginia	3.33	3.76	3.76	3.81	2.93	3.05	3.86	4.26	3.49	3.60
Wyoming	2.16	2.15	2.18	2.37	2.45	2.41	2.44	2.66	2.61	2.50
Total U.S.	2.51	2.53	2.53	2.68	2.78	2.77	2.79	3.09	3.01	2.90

U.S. Crude Oil Price
By State
Dollars per barrel

	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
Alaska	2.20	2.79	3.04	3.04	3.04	3.06	3.06	3.13	2.82	2.90
Alabama	2.90	2.75	2.59	2.59	2.60	2.61	2.60	2.65	2.67	2.70
Arizona	2.80	2.50	2.76	2.80	2.75	2.85	2.80	2.80	2.85	2.90
Arkansas	2.77	2.75	2.66	2.66	2.66	2.66	2.66	2.70	2.73	2.83
California	2.46	2.43	2.50	2.48	2.43	2.38	2.35	2.31	2.35	2.45
Colorado	2.90	2.88	2.88	2.88	2.88	2.88	2.91	2.92	2.95	3.12
Florida	2.45	2.40	2.10	1.99	2.01	2.05	2.20	2.25	2.31	2.47
Illinois	2.96	2.99	2.98	2.98	2.93	2.93	3.00	3.04	3.07	3.18
Indiana	2.94	2.98	2.98	2.96	2.85	2.84	3.00	2.98	3.05	3.19
Kansas	2.90	2.89	2.91	2.91	2.92	2.92	2.95	3.00	3.02	3.20
Kentucky	2.85	2.97	2.95	2.92	2.87	2.87	2.85	2.90	2.93	3.11
Louisiana	3.14	3.15	3.15	3.12	3.11	3.10	3.11	3.12	3.14	3.30
Michigan	2.91	2.92	2.85	2.85	2.81	2.79	2.87	2.89	2.95	3.07
Mississippi	2.83	2.82	2.78	2.76	2.67	2.64	2.65	2.72	2.80	2.92
Montana	2.41	2.42	2.42	2.44	2.43	2.43	2.44	2.50	2.57	2.69
Nebraska	2.87	2.85	2.83	2.83	2.70	2.66	2.72	2.75	2.79	2.98
New Mexico	2.85	2.86	2.88	2.88	2.87	2.81	2.84	2.92	2.95	3.13
New York	4.64	4.76	4.60	4.59	4.44	4.44	4.57	4.58	4.63	4.52
North Dakota	2.71	2.72	2.75	2.73	2.48	2.50	2.55	2.60	2.64	2.80
Ohio	2.97	3.09	3.10	3.15	2.93	2.94	3.00	3.17	3.19	3.29
Oklahoma	2.92	2.91	2.92	2.91	2.90	2.89	2.91	2.93	2.99	3.12
Pennsylvania	4.55	4.71	4.57	4.56	4.32	4.32	4.45	4.49	4.49	4.52
South Dakota	2.40	2.42	2.00	1.99	2.00	2.00	2.00	2.38	2.15	2.29
Tennessee	3.00	2.65	2.59	2.50	2.50	2.40	2.60	2.85	2.50	2.77
Texas	2.96	2.97	2.99	2.97	2.96	2.96	2.97	3.01	3.04	3.21
Utah	2.74	2.75	2.74	2.72	2.62	2.61	2.64	2.63	2.67	2.80
West Virginia	4.07	4.14	4.00	3.99	3.85	3.85	3.98	4.00	3.97	3.83
Wyoming	2.51	2.50	2.49	2.50	2.53	2.50	2.56	2.58	2.64	2.80
Total U.S.	2.88	2.89	2.90	2.89	2.88	2.86	2.88	2.92	2.94	3.09

U.S. Crude Oil Price
By State
Dollars per barrel

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Alaska	3.01	3.24	3.23	3.62	4.92	5.22	5.03	5.84	* 5.21	* 10.57
Alabama	2.84	3.00	3.07	3.58	8.54	10.13	10.57	9.67	10.52	11.97
Arizona	2.96	3.17	3.25	3.86	5.25	5.25	5.25	5.25	5.92	8.29
Arkansas	2.87	3.11	3.15	3.92	7.43	8.88	9.65	9.93	10.63	14.72
California	2.54	2.72	2.71	3.11	5.30	6.03	6.15	7.31	8.58	12.78
Colorado	3.18	3.39	3.41	4.25	7.57	9.60	9.65	10.10	10.84	13.28
Florida	2.49	2.91	2.91	4.59	9.66	11.71	11.24	11.67	NA	NA
Illinois	3.25	3.47	3.47	4.32	8.87	10.48	10.18	12.27	13.81	23.49
Indiana	3.20	3.42	3.42	3.92	8.62	10.54	10.89	12.46	13.70	23.28
Kansas	3.27	3.52	3.52	4.25	7.96	9.50	9.50	10.00	13.20	21.57
Kentucky	3.15	3.36	3.36	3.97	8.72	11.19	11.42	13.02	13.73	22.55
Louisiana	3.88	3.59	3.59	4.00	6.53	7.09	7.51	8.33	9.03	11.42
Michigan	3.10	3.27	3.20	4.07	8.59	10.74	10.84	11.00	11.86	14.47
Mississippi	2.99	3.15	3.15	3.81	6.10	6.66	7.14	8.20	7.91	10.74
Montana	2.78	3.01	3.07	3.33	6.65	7.83	8.42	8.58	9.04	12.03
Nebraska	3.09	3.38	3.38	3.87	6.83	9.01	8.99	10.46	11.40	18.13
New Mexico	3.20	3.40	3.41	4.10	7.22	8.29	8.84	9.23	10.17	14.33
New York	4.52	4.70	4.81	5.60	10.65	12.22	12.25	14.20	NA	NA
North Dakota	3.05	3.27	3.28	3.90	6.04	7.32	7.84	8.00	9.75	13.64
Ohio	3.34	3.60	3.76	5.08	9.83	11.89	11.77	13.16	13.80	22.79
Oklahoma	3.19	3.40	3.41	3.78	7.18	8.52	9.19	9.98	11.30	17.53
Pennsylvania	4.52	4.66	4.77	5.62	10.41	12.15	12.16	14.29	14.72	24.13
South Dakota	2.34	2.59	2.62	3.59	6.65	12.70	12.35	12.00	12.16	15.35
Tennessee	2.82	3.05	3.00	3.36	9.42	11.51	13.72	13.75	12.70	20.26
Texas	3.28	3.48	3.48	3.98	6.95	7.64	8.59	8.78	9.29	12.65
Utah	2.81	3.04	3.04	3.61	7.11	8.23	9.30	9.33	9.98	11.41
West Virginia	3.80	3.91	4.50	5.02	10.15	11.99	12.00	13.97	14.48	23.35
Wyoming	2.93	3.10	3.09	3.82	6.53	7.24	7.24	7.62	9.16	11.73
Total U.S.	3.18	3.39	3.39	3.89	6.74	7.56	8.14	8.57	8.96	12.51

U.S. Crude Oil Price
By State
Dollars per barrel

	1980	1981	1982	1983	1984	1985	1986
Alaska	* 16.87	* 23.23	* 19.92	* 17.69	* 17.91	* 16.98	* 6.54
Alabama	20.57	35.80	32.32	30.07	29.39	25.77	13.91
Arizona	12.30	24.00	31.00	30.00	27.00	NA	NA
Arkansas	24.17	33.69	30.12	28.28	28.15	25.79	14.52
California	23.87	26.80	24.58	22.61	22.09	22.14	11.90
Offshore Calif.+	16.28	24.56	23.37	20.54	20.41	20.08	9.48
Colorado	22.91	35.69	31.56	28.92	28.09	25.64	13.99
Florida	NA	NA	NA	NA	NA	NA	NA
Gulf of Mexico +	18.87	35.07	32.61	29.77	29.36	27.33	15.28
Illinois	35.78	36.03	31.69	29.12	28.76	26.90	14.70
Indiana	35.91	36.07	31.66	29.06	28.72	26.82	14.55
Kansas	34.20	35.80	30.79	28.45	27.99	25.33	14.02
Kentucky	34.98	35.90	31.19	28.60	28.24	26.20	14.20
Louisiana	19.87	35.45	32.44	30.02	29.67	27.22	15.32
Michigan	23.54	35.74	31.80	28.93	28.54	26.16	14.61
Mississippi	20.85	30.47	29.04	26.76	27.26	25.51	13.64
Montana	20.53	34.69	31.25	28.80	28.07	25.29	13.60
Nebraska	30.60	35.32	30.98	28.58	27.83	25.42	13.70
New Mexico	24.06	35.04	31.82	29.26	28.69	26.84	14.93
New York	NA	NA	30.91	28.19	27.70	25.19	16.03
North Dakota	26.42	35.63	31.89	29.27	28.39	25.32	13.54
Ohio	36.64	36.11	30.90	28.14	27.71	25.11	15.51
Oklahoma	29.25	35.43	32.04	29.67	29.11	26.28	14.47
Pennsylvania	37.46	36.03	30.77	28.28	27.71	25.05	15.77
South Dakota	28.81	35.55	31.63	29.10	28.36	25.79	13.81
Tennessee	34.29	33.00	32.10	32.00	26.00	NA	NA
Texas	21.84	35.06	31.77	29.35	28.87	26.80	14.74
Utah	19.79	34.14	30.50	28.12	27.21	23.98	13.30
West Virginia	36.92	35.69	29.98	27.27	26.90	24.35	14.68
Wyoming	21.34	32.30	29.37	27.19	26.73	24.67	12.94
Total U.S.	21.59	31.77	28.52	26.19	25.88	24.09	12.66

* Alaska North Slope crude oil price.
+ Federal Offshore

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, American Petroleum Institute, Energy Information Administration

Landed Cost of U.S. Crude Oil Imports
By Country
Dollars per barrel

	1978	1979	1980	1981	1982	1983	1984	1985	1986
Algeria	14.91	21.90	37.90	40.49	35.28	31.26	29.08	27.46	14.33
Canada	14.50	20.43	30.47	32.16	26.92	25.63	26.59	25.71	13.37
Indonesia	14.64	20.69	33.92	37.57	36.75	31.57	30.64	28.67	14.59
Mexico	13.54	20.86	31.80	33.78	28.64	25.78	26.87	25.63	12.07
Nigeria	14.86	22.96	37.05	39.70	36.17	30.84	30.50	28.96	15.28
Saudi Arabia	13.92	19.15	30.02	34.19	35.00	29.76	29.50	24.72	12.80
United Kingdom	NA	22.16	35.88	37.24	34.28	30.87	29.60	28.35	14.51
Venezuela	12.83	18.18	25.86	29.87	24.82	22.94	25.15	24.43	11.55
Average Other Countries	14.58	23.18	36.02	38.54	34.03	29.68	29.20	27.33	14.15
Average All Arab Countries	14.36	20.79	32.97	36.22	35.15	30.03	29.12	25.88	[illegible].99
Average OPEC	14.34	21.29	33.56	36.60	34.81	29.87	28.93	26.85	13.39
Average All U.S. Imports	14.38	21.65	33.95	36.52	33.18	28.93	28.46	26.66	13.42

Data from Oil & Gas Journal Energy Database
Source: Energy Information Administration

Weighted Average Crude Oil Prices
Dollars per barrel

	Total OPEC*	Total Non-OPEC*	Total World+	U.S. Imports@		Total OPEC*	Total Non-OPEC*	Total World+	U.S. Imports@
January 1981	34.36	37.23	35.45	36.28	January 1984	28.59	28.65	28.61	28.44
February	34.91	38.62	35.60	36.71	February	28.59	28.65	28.61	28.44
March	34.93	38.57	35.61	36.58	March	28.59	28.69	28.62	28.36
April	34.91	38.54	35.60	36.58	April	28.59	28.71	28.62	28.31
May	34.83	37.39	35.32	36.49	May	28.59	28.77	28.65	28.43
June	34.55	35.46	34.74	36.08	June	28.59	28.77	28.65	28.43
July	34.34	34.59	34.39	35.52	July	28.59	28.77	28.65	28.43
August	34.08	34.72	34.20	35.01	August	28.62	28.64	28.62	28.41
September	33.98	34.72	34.13	34.56	September	28.74	28.71	28.73	28.38
October	33.84	34.39	33.97	33.84	October	28.66	28.46	28.59	28.16
November	34.12	34.91	34.30	34.37	November	28.58	28.18	28.43	28.03
December	34.24	34.79	34.37	34.45	December	28.58	28.18	28.43	28.03
1981 Average	**34.42**	**36.16**	**34.81**	**35.54**	**1984 Average**	**28.61**	**28.60**	**28.60**	**28.32**
January 1982	34.13	34.35	34.18	34.15	January 1985	28.51	28.16	28.38	27.96
February	34.09	33.99	34.06	34.04	February	28.21	27.99	28.13	27.63
March	33.99	32.09	33.51	33.26	March	27.99	27.89	27.96	27.44
April	33.77	31.89	33.31	33.04	April	27.99	27.39	27.77	27.20
May	33.70	31.82	33.25	32.98	May	27.98	27.16	27.67	27.10
June	33.47	32.08	33.09	32.99	June	27.97	26.36	27.37	26.82
July	33.57	31.93	33.13	32.99	July	27.95	25.94	27.21	26.56
August	33.56	31.93	33.11	32.99	August	27.92	25.99	27.11	26.54
September	33.56	31.93	33.11	32.99	September	27.92	26.42	27.29	26.40
October	33.56	31.91	33.11	32.99	October	27.88	26.77	27.42	26.37
November	33.55	31.86	33.06	32.64	November	27.83	27.26	27.60	26.43
December	33.54	31.77	33.01	32.51	December	27.81	26.40	27.23	25.88
1982 Average	**33.71**	**32.30**	**33.33**	**33.13**	**1985 Average**	**28.00**	**26.98**	**27.60**	**26.86**
January 1983	33.54	31.72	33.00	32.51	January 1986	27.71	24.27	26.36	24.77
February	33.44	31.39	32.82	32.32	February	27.23	20.20	24.44	21.64
March	32.91	30.19	32.10	30.86	March	15.11	14.41	14.85	13.44
April	29.09	28.21	28.76	28.43	April	12.80	12.41	12.62	12.08
May	28.82	28.20	28.59	28.32	May	13.40	12.71	13.15	12.55
June	28.84	28.24	28.62	28.16	June	12.03	11.82	11.95	11.24
July	28.88	28.44	28.72	27.58	July	10.13	9.79	10.00	9.64
August	28.72	28.63	28.69	27.81	August	12.28	11.50	11.99	11.49
September	28.65	28.64	28.65	27.92	September	13.92	12.99	13.58	12.58
October	28.61	28.28	28.66	28.33	October	13.39	13.00	13.25	12.80
November	28.59	28.83	28.67	28.45	November	13.62	13.47	13.56	13.04
December	28.59	28.73	28.64	28.45	December	13.78	14.14	13.93	13.12
1983 Average	**29.89**	**29.13**	**29.66**	**29.10**	**1986 Average**	**15.45**	**14.23**	**14.97**	**14.03**

* Average price (FOB) weighted by estimated export volumes.
+ Average price (FOB) weighted by estimated export volumes. Excludes U.S. crude oil since it is not exported.
@ Average price (FOB) weighted by estimated import volumes.

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration

Posted Prices of Selected Crude Oils
Yearend
Dollars per barrel

	Algeria Saharan 44 deg.	Ecuador Oriente 29.7 deg.	Indonesia Minas 34 deg.	Iran Light 34 deg.	Libya Es Sider 37 deg.	Nigeria Bonny 37 deg.	Saudi Arabia Light 34 deg.	Venezuela Tia Juana 26 deg.	Mexico Maya 22 deg.	United Kingdom Brent Blend 38 deg.
1950	NA	NA	NA	NA	NA	NA	1.75	NA	NA	NA
1951	NA	NA	NA	NA	NA	NA	1.75	NA	NA	NA
1952	NA	NA	NA	NA	NA	NA	1.75	NA	NA	NA
1953	NA	NA	NA	NA	NA	NA	1.93	NA	NA	NA
1954	NA	NA	NA	1.86	NA	NA	1.93	NA	NA	NA
1955	NA	NA	NA	1.86	NA	NA	1.93	NA	NA	NA
1956	NA	NA	NA	1.99	NA	NA	1.93	NA	NA	NA
1957	NA	NA	NA	1.99	NA	NA	2.08	NA	NA	NA
1958	NA	NA	NA	1.81	NA	NA	2.08	NA	NA	NA
1959	NA	NA	NA	1.81	NA	NA	1.90	NA	NA	NA
1960	NA	NA	NA	1.81	NA	NA	1.80	NA	NA	NA
1961	NA	NA	NA	1.81	2.23	NA	1.80	NA	NA	NA
1962	NA	NA	NA	1.81	2.23	NA	1.80	NA	NA	NA
1963	2.35	NA	NA	1.81	2.23	NA	1.80	NA	NA	NA
1964	2.35	NA	NA	1.81	2.23	NA	1.80	NA	NA	NA
1965	2.35	NA	NA	1.79	2.23	NA	1.80	NA	NA	NA
1966	2.35	NA	NA	1.79	2.23	NA	1.80	NA	NA	NA
1967	2.35	NA	NA	1.79	2.23	2.17	1.80	NA	NA	NA
1968	2.35	NA	NA	1.79	2.23	2.17	1.80	NA	NA	NA
1969	2.65	NA	NA	1.79	2.23	2.17	1.80	NA	NA	NA
1970	2.65	NA	1.70	1.79	2.53	2.42	1.80	2.01	NA	NA
1971	3.55	NA	2.26	2.27	3.39	3.17	2.29	2.90	NA	NA
1972	3.66	2.50	2.96	2.47	3.62	3.56	2.59	3.06	NA	NA
1973	9.10	10.00	10.80	11.87	9.06	14.69	11.65	11.79	NA	NA
1974	12.30	13.70	12.60	11.47	14.60	11.66	11.25	12.33	NA	NA
1975	12.75	11.45	12.80	12.50	12.21	12.70	12.67	13.43	NA	NA
1976	13.05	13.00	13.55	12.50	13.74	14.31	13.00	11.65	NA	NA
1977	14.45	12.65	13.55	12.81	13.80	14.31	13.66	12.82	NA	NA
1978	14.10	12.37	13.90	12.81	14.52	14.80	14.34	13.36	15.45	15.70
1979	30.00	32.09	27.50	28.50	34.50	29.97	27.95	25.20	28.00	26.02
1980	37.00	40.07	35.00	37.00	40.78	40.00	32.00	32.88	34.50	39.25
1981	37.50	33.05	35.00	34.20	36.50	36.50	34.00	32.88	26.50	36.60
1982	35.50	29.60	34.53	31.20	35.50	35.50	34.00	32.88	25.50	33.50
1983	30.50	26.90	29.53	28.00	30.15	30.00	29.00	27.88	25.00	30.00
1984	30.50	17.50	29.53	28.00	30.15	28.00	29.00	27.88	25.50	28.65
1985	29.50	26.15	28.53	28.05	30.15	28.65	28.00	27.10	21.93	26.00
1986	29.50	26.15	28.53	28.05	30.15	28.65	28.00	27.10	10.89	NA

Note: During 1986 netback pricing and other deals were prevalent. Little crude oil actually was traded at the official posted prices.

Data from Oil & Gas Journal Energy Database.
Source: OPEC Secretariat, Energy Information Administration

Arabian Light Crude Oil Price
Average Government Selling Price
Dollars per barrel

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
1st Quarter	2.41	10.95	10.46	11.51	12.09	12.70	13.34	26.00	32.00	34.00	31.00	29.00	28.34	28.00
2nd Quarter	2.61	10.98	10.46	11.51	12.09	12.70	15.70	28.00	32.00	34.00	29.00	29.00	28.00	28.00
3rd Quarter	2.82	11.05	10.46	11.51	12.70	12.70	18.00	29.33	32.00	34.00	29.00	29.00	28.00	28.00
4th Quarter	4.41	10.59	11.51	11.51	12.70	12.70	22.00	31.33	34.00	34.00	29.00	29.00	28.00	28.00

Arabian Light Crude Oil Price
Average Spot Market Price
Dollars per barrel

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
1st Quarter	2.10	9.90	10.45	11.50	12.20	12.70	19.65	36.10	37.65	31.00	29.30	28.55	27.80	17.55
2nd Quarter	2.30	10.50	10.40	11.50	12.10	12.70	27.95	35.40	33.85	32.30	28.65	28.35	27.11	14.14
3rd Quarter	2.60	10.00	10.45	11.60	12.70	12.80	33.60	32.85	31.95	32.00	28.90	27.65	27.62	12.65
4th Quarter	4.50	10.45	11.50	11.90	12.70	13.80	38.35	38.40	33.75	31.75	28.35	27.77	27.75	13.99

Data from Oil & Gas Journal Energy Database.
Source: Shell Briefing Service, Energy Information Administration

Average U.S. Wellhead Price of Natural Gas
Cents per thousand cubic feet

1947	6.0	1967	16.0
1948	6.5	1968	16.4
1949	6.3	1969	16.7
1950	6.5	1970	17.1
1951	7.3	1971	18.2
1952	7.8	1972	18.6
1953	9.2	1973	21.6
1954	10.1	1974	30.4
1955	10.4	1975	44.5
1956	10.8	1976	58.0
1957	11.3	1977	79.0
1958	11.9	1978	90.5
1959	12.9	1979	117.8
1960	14.0	1980	159.0
1961	15.1	1981	198.0
1962	15.5	1982	246.0
1963	15.8	1983	259.0
1964	15.4	1984	266.0
1965	15.6	1985	251.0
1966	15.7	1986	187.0

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information
Administration

U.S. Average Price of Natural Gas at the Wellhead
Dollars per thousand cubic feet

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1974	0.24	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.28	0.32	**0.27**
1975	0.30	0.29	0.33	0.33	0.35	0.35	0.37	0.35	0.36	0.36	0.36	0.36	**0.34**
1976	0.39	0.39	0.39	0.41	0.42	0.44	0.44	0.56	0.69	0.58	0.53	0.54	**0.48**
1977	0.59	0.63	0.70	0.65	0.69	0.69	0.72	0.71	0.72	0.74	0.75	0.74	**0.69**
1978	0.74	0.76	0.79	0.81	0.81	0.83	0.84	0.84	0.88	0.91	0.90	0.96	**0.84**
1979	1.02	1.05	1.09	1.11	1.15	1.17	1.20	1.24	1.23	1.28	1.29	1.31	**1.18**
1980	1.37	1.42	1.46	1.51	1.56	1.57	1.64	1.64	1.69	1.71	1.76	1.74	**1.59**
1981	1.77	1.81	1.86	1.93	1.95	1.95	2.01	2.02	2.08	2.11	2.15	2.16	**1.98**
1982	2.21	2.23	2.31	2.35	2.41	2.44	2.45	2.51	2.54	2.56	2.59	2.60	**2.43**
1983	2.66	2.66	2.58	2.53	2.53	2.59	2.52	2.58	2.67	2.58	2.60	2.61	**2.59**
1984	2.67	2.71	2.67	2.64	2.67	2.70	2.68	2.69	2.62	2.63	2.61	2.57	**2.66**
1985	2.64	2.71	2.62	2.64	2.53	2.58	2.51	2.47	2.42	2.37	2.36	2.28	**2.51**
1986	2.28	2.26	2.16	2.00	1.87	1.76	1.70	1.67	1.67	1.66	1.65	1.64	**1.86**

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration

Price of Imported Natural Gas
Dollars per Thousand Cubic Feet

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1981	4.33	4.51	4.61	4.88	4.82	4.83	4.86	4.89	4.88	5.00	5.01	4.97	**4.80**
1982	4.94	4.96	4.94	4.94	4.93	4.86	5.00	5.07	5.05	5.02	5.01	4.94	**4.97**
1983	5.03	5.09	5.01	4.58	4.40	4.41	4.31	3.93	4.02	4.03	4.26	4.33	**4.45**
1984	4.40	4.37	4.40	4.23	4.15	4.25	4.15	4.12	4.34	4.19	3.43	3.34	**4.11**
1985	3.21	3.08	3.29	3.39	3.32	3.40	3.41	3.28	3.28	3.16	2.88	2.79	**3.21**
1986	2.81	2.79	3.05	3.14	2.75	2.56	2.78	2.22	2.26	2.22	1.84	1.99	**2.53**

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration

U.S. Natural Gas Wellhead Prices
Dollars per thousand cubic feet

	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Alabama	0.07	0.10	0.12	0.11	0.13	0.13	0.13	0.13	0.13	0.14	0.15	0.35	0.38	0.74
Alaska	0.20	0.21	0.25	0.27	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.15	0.15	0.17
Arizona	NA	0.12	0.12	0.12	0.12	0.14	0.15	0.16	0.18	0.17	0.18	0.18	0.18	0.20
Arkansas	0.12	0.15	0.16	0.16	0.16	0.15	0.15	0.16	0.16	0.16	0.17	0.17	0.18	0.26
California	0.27	0.29	0.29	0.30	0.31	0.31	0.30	0.31	0.31	0.32	0.33	0.37	0.37	0.44
Colorado	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.14	0.15	0.15	0.16	0.17	0.18	0.20
Florida	0.16	0.21	0.20	0.13	0.13	0.14	0.15	0.15	0.16	NA	0.30	0.32	0.34	0.54
Illinois	0.13	0.14	0.13	0.12	0.12	0.12	0.12	0.13	0.14	0.16	0.18	0.28	0.35	0.40
Indiana	0.19	0.21	0.23	0.24	0.24	0.24	0.23	0.23	0.24	0.24	0.25	0.16	0.14	0.14
Kansas	0.12	0.12	0.13	0.13	0.13	0.14	0.13	0.14	0.14	0.14	0.14	0.14	0.16	0.17
Kentucky	0.24	0.25	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.35	0.50
Louisiana	0.17	0.20	0.20	0.19	0.18	0.18	0.19	0.19	0.19	0.19	0.20	0.20	0.22	0.31
Maryland	0.27	0.27	0.27	0.27	0.25	0.26	0.26	0.26	0.25	0.25	0.24	0.21	0.23	0.24
Michigan	0.21	0.21	0.27	0.25	0.25	0.25	0.25	0.25	0.26	0.27	0.26	0.31	0.39	0.50
Mississippi	0.19	0.19	0.18	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.21	0.22	0.23	0.30
Missouri	0.25	0.25	0.27	0.24	0.25	NA	0.25	0.29	0.14	0.25	0.25	0.25	0.25	0.31
Montana	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.09	0.10	0.10	0.12	0.12	0.24	0.25
Nebraska	0.18	0.18	0.19	0.15	0.15	0.16	0.17	0.18	0.17	0.17	0.18	0.18	0.18	0.34
New Mexico	0.11	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.14	0.14	0.15	0.19	0.24	0.31
New York	0.31	0.28	0.30	0.31	0.31	0.31	0.31	0.32	0.30	0.30	0.30	0.33	0.35	0.55
North Dakota	0.18	0.14	0.19	0.22	0.16	0.16	0.16	0.17	0.16	0.16	0.17	0.17	0.20	0.20
Ohio	0.21	0.26	0.24	0.24	0.24	0.24	0.24	0.25	0.26	0.27	0.34	0.39	0.43	0.48
Oklahoma	0.12	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.15	0.16	0.16	0.16	0.19	0.28
Oregon	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pennsylvania	0.32	0.27	0.26	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.30	0.42	0.44
South Dakota	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tennessee	0.18	0.19	0.19	0.19	0.19	NA	0.19	0.19	0.20	0.20	0.22	0.30	0.33	0.36
Texas	0.11	0.12	0.13	0.12	0.13	0.13	0.13	0.14	0.14	0.14	0.16	0.16	0.20	0.31
Utah	0.18	0.17	0.18	0.14	0.13	0.13	0.13	0.16	0.15	0.15	0.17	0.17	0.19	0.41
Virginia	0.27	0.21	0.23	0.30	0.30	0.30	0.30	0.30	0.30	0.31	0.31	0.32	0.33	0.51
West Virginia	0.26	0.28	0.27	0.25	0.24	0.24	0.24	0.26	0.27	0.25	0.26	0.30	0.31	0.33
Wyoming	0.12	0.15	0.14	0.13	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.18	0.25
Total U.S.	**0.15**	**0.16**	**0.16**	**0.15**	**0.16**	**0.16**	**0.16**	**0.16**	**0.17**	**0.17**	**0.18**	**0.19**	**0.22**	**0.30**

U.S. Natural Gas Wellhead Prices
Dollars per thousand cubic feet

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Alabama	0.87	0.99	1.47	1.50	2.04	3.19	4.77	3.44	4.28	3.73	3.71
Alaska	0.30	0.39	0.40	0.52	0.52	0.73	0.62	0.63	0.73	0.73	0.74
Arizona	0.28	0.28	0.34	0.37	0.41	NA	NA	2.59	3.08	2.90	NA
Arkansas	0.35	0.53	0.59	0.75	0.96	0.70	1.81	2.13	2.29	2.54	2.55
California	0.70	0.94	1.17	1.36	1.71	3.13	2.57	3.09	3.57	3.80	3.36
Colorado	0.26	0.48	0.81	0.84	1.41	1.47	1.97	3.17	3.38	3.43	2.90
Florida	0.97	0.98	1.09	1.39	1.57	1.73	2.71	2.46	2.33	2.57	2.43
Illinois	0.70	0.95	1.20	1.29	1.86	1.90	2.47	2.62	2.84	2.78	2.77
Indiana	0.39	0.52	0.69	0.71	1.05	1.35	2.08	1.55	2.09	3.38	2.51
Kansas	0.17	0.42	0.49	0.57	0.76	0.77	0.92	1.51	1.57	1.49	1.27
Kentucky	0.54	0.55	0.55	0.58	0.95	0.89	1.01	1.52	1.51	1.70	2.39
Louisiana	0.42	0.46	0.70	0.84	1.12	1.61	2.07	2.60	2.67	2.73	2.66
Maryland	0.27	0.32	0.39	0.61	1.04	0.46	0.48	0.78	0.55	0.55	0.59
Michigan	0.63	0.90	1.01	1.20	1.74	2.36	2.86	3.19	3.58	3.76	3.60
Mississippi	0.50	0.71	0.73	1.15	1.60	2.32	3.21	3.91	3.78	3.47	3.17
Missouri	0.34	0.35	0.42	NA	NA	NA	NA	NA	NA	2.46	3.50
Montana	0.43	0.45	0.72	0.85	1.21	1.45	1.91	2.15	2.41	3.75	2.39
Nebraska	0.54	0.51	0.65	0.68	0.85	0.83	1.45	1.99	2.93	2.24	3.01
New Mexico	0.41	0.57	0.81	0.99	1.37	1.76	2.13	2.47	2.68	2.71	2.62
New York	0.74	1.13	1.16	1.19	1.27	1.95	2.67	3.75	3.85	4.00	3.37
North Dakota	0.23	0.34	0.35	0.46	1.28	1.19	1.94	2.30	2.27	2.26	1.90
Ohio	0.71	1.02	1.40	1.57	1.81	1.98	2.17	2.71	3.24	3.19	3.08
Oklahoma	0.32	0.50	0.79	0.90	1.12	1.51	1.88	2.74	2.83	2.72	2.47
Oregon	NA	NA	0.00	0.00	2.13	2.40	2.60	3.33	3.33	2.78	2.40
Pennsylvania	0.68	0.69	0.80	0.86	1.33	2.13	2.33	2.80	3.00	3.25	3.16
South Dakota	NA	NA	0.00	0.00	2.11	NA	2.75	3.08	3.37	3.67	2.51
Tennessee	0.43	0.71	0.74	1.64	1.70	1.76	2.55	3.00	2.50	3.50	2.48
Texas	0.52	0.72	0.90	1.00	1.23	1.57	1.87	2.17	2.36	2.45	2.33
Utah	0.48	0.51	0.61	0.64	0.72	1.12	1.10	3.06	3.40	4.08	3.52
Virginia	0.52	1.14	1.26	1.31	1.68	2.85	2.15	3.69	3.30	3.00	3.02
West Virginia	0.37	0.57	0.61	0.66	1.05	3.00	3.00	3.20	3.10	3.45	3.85
Wyoming	0.34	0.41	0.64	0.79	1.13	1.92	2.77	3.22	3.18	3.32	3.01
Total U.S.	**0.45**	**0.58**	**0.79**	**0.91**	**1.18**	**1.59**	**1.98**	**2.46**	**2.59**	**2.66**	**2.51**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, State Conservation Agencies, Energy Information Administration

U.S. Average Natural Gas Price
by End Use Sector
Dollars per million cubic feet

	Lease & Plant Fuel	Pipeline Fuel	Residential Consumption	Commercial Consumption	Industrial Consumption	Electric Utilities Consumption	Average for all Consumption
1967	0.15	0.20	1.04	0.74	0.34	0.28	0.53
1968	0.16	0.20	1.04	0.73	0.34	0.22	0.51
1969	0.18	0.21	1.05	0.74	0.35	0.27	0.53
1970	0.18	0.21	1.09	0.77	0.37	0.29	0.55
1971	0.19	0.22	1.15	0.82	0.41	0.32	0.59
1972	0.20	0.23	1.21	0.88	0.45	0.34	0.63
1973	0.21	0.25	1.29	0.94	0.50	0.38	0.68
1974	0.51	0.30	1.46	1.07	0.67	0.51	0.84
1975	0.47	0.40	1.71	1.35	0.96	0.77	1.12
1976	0.57	0.51	1.98	1.64	1.24	0.98	1.37
1977	0.71	0.77	2.35	2.04	1.50	1.32	1.66
1978	0.79	0.90	2.56	2.23	1.70	1.48	1.85
1979	1.06	1.32	2.98	2.73	1.99	1.81	2.21
1980	1.43	1.85	3.68	3.39	2.56	2.27	2.80
1981	1.93	2.39	4.29	4.00	3.14	2.89	3.39
1982	2.23	2.97	5.17	4.82	3.87	3.48	4.15
1983	2.54	3.15	6.06	5.59	4.18	3.58	4.64
1984	2.71	3.04	6.12	5.55	4.22	3.70	4.67
1985	2.37	2.92	6.12	5.50	3.95	3.55	4.53
1986	NA	NA	5.82	5.10	3.18	2.43	4.26

Data from Oil & Gas Journal Energy Database

Source: Bureau of Mines, Energy Information Administration

Price of Natural Gas for Residential Use
Dollars per thousand cubic feet

	1978	1979	1980	1981	1982	1983	1984	1985	1986
Australia	3.67	3.82	4.12	4.56	4.53	4.63	4.98	4.17	4.22
Austria	NA	11.70	13.04	13.20	13.62	12.93	12.30	NA	NA
Belgium	5.59	6.09	7.64	8.28	8.43	8.08	7.82	7.90	8.70
Canada	2.50	2.39	2.68	3.34	3.81	4.46	4.31	4.16	4.00
Denmark	NA	NA	NA	NA	NA	NA	8.61	8.87	11.72
Finland	2.28	2.44	4.60	5.35	4.67	4.39	4.04	3.78	NA
France	6.87	7.62	9.85	9.63	9.69	9.13	8.46	8.89	NA
Germany, West	5.91	6.57	7.98	7.72	8.46	7.95	7.16	7.14	NA
Ireland	NA	NA	NA	18.57	16.37	11.81	9.72	10.19	11.40
Italy	4.02	5.02	5.00	4.95	6.88	8.20	7.48	NA	NA
Japan	11.64	11.36	14.68	16.42	14.58	15.21	15.17	15.15	NA
Netherlands	3.92	4.24	5.40	5.56	6.08	6.04	5.73	5.82	7.78
New Zealand	4.54	5.00	5.54	5.45	4.92	4.39	3.14	2.75	3.41
Spain	5.35	8.12	12.12	11.45	10.23	9.53	9.27	9.85	12.87
Switzerland	18.82	20.24	21.10	20.60	19.93	19.27	17.22	16.46	22.50
United Kingdom	3.43	3.93	5.23	5.55	5.89	5.47	4.96	4.95	NA
United States	2.56	2.98	3.68	4.29	5.17	5.99	6.10	6.10	6.25

Data from Oil & Gas Journal Energy Database
Source: International Energy Agency

U.S. Average Leaded Motor Gasoline Prices
Excluding Tax
Cents per gallon

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	24.5	22.7	23.6	23.2	22.6	23.6	23.3	25.5	25.2	24.7	22.3	24.8	**23.8**
1972	23.7	22.5	23.4	23.3	24.5	24.2	23.7	25.8	25.7	25.0	24.9	25.1	**24.3**
1973	25.1	25.5	26.1	26.4	26.5	26.7	26.7	26.7	26.7	27.4	29.3	30.8	**27.0**
1974	34.5	34.5	36.9	38.7	41.9	43.2	43.2	43.4	43.3	41.8	41.1	41.4	**40.3**
1975	41.9	42.2	42.5	43.3	43.8	45.3	47.6	48.5	48.7	48.1	47.7	47.4	**45.6**
1976	46.7	46.0	45.3	45.3	46.2	47.9	48.7	49.1	49.0	48.8	48.5	48.1	**47.5**
1977	48.2	48.7	50.1	50.9	51.6	52.1	52.0	51.8	51.4	51.0	51.1	50.7	**50.8**
1978	50.4	50.1	50.3	50.9	52.1	53.0	53.9	54.4	55.1	54.9	55.9	5[illegible].4	**53.1**
1979	57.1	58.2	60.1	63.2	66.4	70.8	76.1	80.7	84.0	85.5	87.2	90.2	**73.3**
1980	96.4	102.7	107.4	108.4	109.1	109.3	109.3	108.7	107.6	107.2	108.0	109.7	**107.0**
1981	114.0	121.7	123.4	122.9	122.3	121.1	120.2	119.8	119.6	118.3	117.7	117.1	**119.8**
1982	115.7	114.0	108.3	104.8	108.5	114.4	115.5	114.1	113.0	111.3	109.6	106.9	**111.3**
1983	103.3	100.2	98.1	101.0	104.5	105.6	106.1	105.2	104.2	102.7	101.5	99.8	**102.7**
1984	99.3	99.7	100.2	101.7	102.0	100.8	98.7	98.0	99.3	99.6	98.8	96.7	**99.6**
1985	87.8	88.1	91.3	94.8	96.0	96.6	97.2	96.3	94.9	94.7	95.5	94.9	**94.0**
1986	92.4	85.6	73.7	69.3	71.8	69.7	63.8	65.6	65.7	63.6	64.5	65.0	**70.9**

U.S. Average Leaded Motor Gasoline Prices
Pump Price
Cents per gallon

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	35.4	33.6	34.5	34.1	33.5	34.5	34.2	36.5	36.2	35.7	33.8	35.8	**34.8**
1972	34.7	33.6	34.5	34.4	35.6	35.3	34.8	37.0	36.9	36.2	36.1	36.3	**35.5**
1973	36.3	36.8	37.3	37.6	37.8	38.0	38.0	38.0	37.9	38.3	40.4	42.0	**38.2**
1974	45.7	45.7	48.2	50.0	53.2	34.5	54.5	54.7	54.6	53.1	52.4	52.7	**50.0**
1975	53.2	53.6	53.8	54.6	55.1	56.7	58.9	59.8	60.0	59.4	59.0	58.7	**56.9**
1976	58.0	57.3	56.8	56.7	57.7	59.3	60.2	60.6	60.5	60.2	59.9	59.6	**58.9**
1977	59.7	60.5	61.6	62.4	63.0	63.6	63.5	63.3	62.9	62.6	62.7	62.3	**62.3**
1978	62.0	61.7	61.9	62.5	63.7	64.6	65.4	65.9	66.6	66.5	67.4	68.1	**64.7**
1979	68.7	69.9	71.8	74.9	78.1	82.6	87.9	92.5	95.8	97.2	99.0	101.9	**85.0**
1980	108.2	114.4	119.1	120.1	120.8	121.1	121.1	120.4	119.3	119.0	119.9	122.3	**118.8**
1981	126.6	134.4	136.2	135.7	135.0	133.9	133.1	132.7	132.5	131.9	131.5	130.8	**132.8**
1982	129.5	127.9	122.0	118.5	122.3	128.7	130.1	128.8	127.6	125.9	124.2	121.5	**125.6**
1983	118.0	114.9	112.8	120.9	124.7	125.9	126.8	126.0	125.1	123.5	122.4	120.6	**121.8**
1984	120.2	120.7	121.1	122.6	123.1	121.9	119.9	119.2	120.6	120.9	120.1	118.3	**120.7**
1985	109.4	109.7	113.0	116.5	117.8	118.4	119.1	118.1	117.0	116.7	117.6	117.1	**115.9**
1986	114.6	107.7	95.6	91.1	93.7	91.7	86.0	87.8	87.9	85.8	86.7	87.2	**93.0**

Data from Oil & Gas Journal Energy Database
Source: Oil & Gas Journal

U.S. Average Unleaded Motor Gasoline Price
Excluding Tax
Cents per gallon

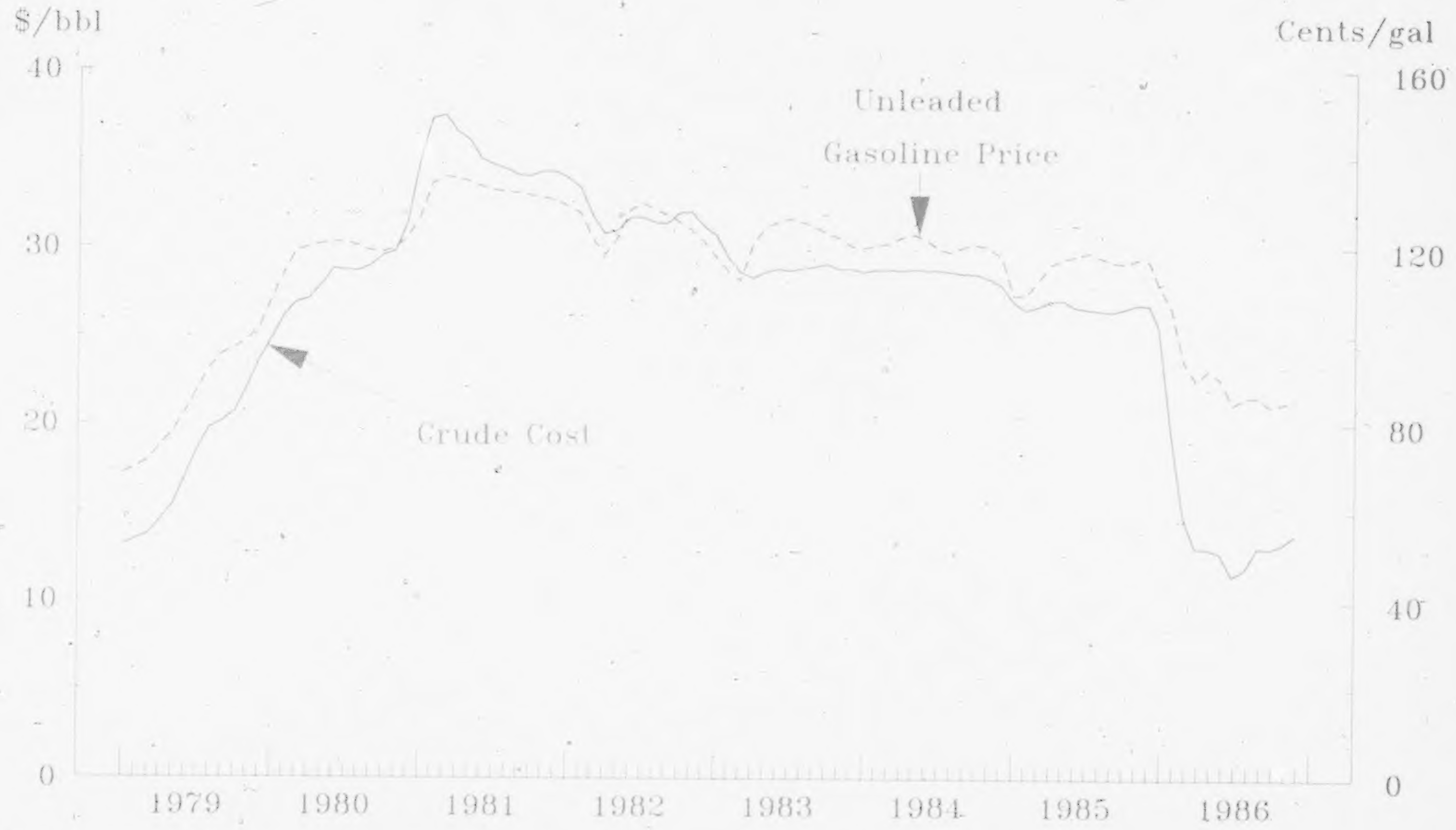
	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1977	48.7	49.3	50.6	51.5	52.1	52.6	52.5	52.3	51.9	51.6	51.6	51.2	**51.3**
1978	51.0	50.6	50.8	51.4	52.7	53.5	54.4	54.9	55.6	55.4	56.4	57.0	**53.6**
1979	57.6	58.8	60.7	63.8	66.9	71.4	76.7	81.3	84.5	86.0	87.8	90.7	**73.8**
1980	97.0	103.2	107.9	108.9	109.6	109.9	109.9	109.2	108.1	107.8	108.5	110.2	**107.5**
1981	114.5	122.2	123.9	123.5	122.8	121.7	120.8	120.4	120.1	118.8	118.2	117.6	**120.4**
1982	116.2	114.6	108.8	105.4	109.1	114.9	116.1	114.7	113.5	111.9	110.1	107.5	**111.9**
1983	103.9	100.8	98.6	101.6	105.0	106.1	106.7	105.7	104.8	103.2	102.0	100.3	**103.2**
1984	99.9	100.3	100.7	102.2	102.5	101.3	99.3	98.5	99.8	100.1	99.3	97.2	**100.1**
1985	88.3	88.6	91.9	95.8	97.1	97.6	97.5	96.5	95.1	94.8	95.7	95.1	**94.5**
1986	89.5	84.8	72.8	68.3	70.7	68.6	62.7	64.4	64.4	62.2	62.9	63.3	**69.6**

U.S. Average Unleaded Motor Gasoline Price
Pump Price
Cents per gallon

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1977	60.0	60.8	61.9	62.7	63.4	63.9	63.8	63.6	63.2	63.0	63.0	62.6	**62.7**
1978	62.3	62.0	62.2	62.8	64.0	64.9	65.8	66.3	67.0	66.8	67.8	68.4	**65.0**
1979	69.0	70.2	72.1	75.2	78.4	82.9	88.2	92.8	96.2	97.6	99.3	102.2	**85.3**
1980	108.5	114.7	119.4	120.5	121.1	121.4	121.4	120.8	119.7	119.3	120.2	122.6	**119.1**
1981	127.0	134.8	136.5	136.0	135.4	134.3	133.4	133.0	132.8	132.2	131.8	131.1	**133.2**
1982	129.8	128.3	122.4	118.9	122.6	129.0	130.5	129.1	127.9	126.3	124.5	121.8	**125.9**
1983	118.3	115.2	113.1	121.3	125.0	126.2	127.1	126.3	125.4	123.8	122.7	120.9	**122.1**
1984	120.5	121.0	121.4	123.0	123.4	122.3	120.3	119.5	120.9	121.2	120.4	118.6	**121.0**
1985	109.7	110.2	113.6	117.5	118.9	119.5	119.3	118.4	117.2	116.9	117.8	117.3	**116.4**
1986	111.7	106.9	94.7	90.2	92.7	90.6	84.9	86.6	86.5	84.3	85.2	85.5	**91.7**

Data from Oil & Gas Journal Energy Database.
Source: Oil & Gas Journal

Refiner's Acquisition Cost of Crude Oil and Motor Gasoline Price



Source: EIA, OGJ

U.S. Average Gasoline Prices by Grade
Cents per gallon

	January	February	March	April	May	June	July	August	September	October	November	December	**Annual Average**
1979													
Leaded Regular	66.8	68.1	70.6	75.3	79.7	85.6	90.8	94.3	97.3	98.2	99.4	101.8	**85.7**
Unleaded Regular	71.6	73.0	75.5	80.2	84.4	90.1	94.9	98.8	102.0	102.8	104.1	106.5	**90.3**
Unleaded Premium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**NA**
Average All Grades*	**69.5**	**70.7**	**73.3**	**78.0**	**82.3**	**88.0**	**93.0**	**96.7**	**99.8**	**100.6**	**101.9**	**104.2**	**88.2**
1980													
Leaded Regular	108.6	115.9	120.2	121.2	121.5	121.7	121.6	121.0	119.7	118.8	118.8	119.7	**119.1**
Unleaded Regular	113.1	120.7	125.2	126.4	126.6	126.9	127.1	126.7	125.7	125.0	125.0	125.8	**124.5**
Unleaded Premium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**NA**
Average All Grades	**111.0**	**118.6**	**123.0**	**124.2**	**124.4**	**124.6**	**124.7**	**124.3**	**123.1**	**122.3**	**122.2**	**123.1**	**122.1**
1981													
Leaded Regular	123.8	132.1	135.2	134.4	133.3	132.4	131.5	131.0	130.5	129.9	129.7	129.3	**131.1**
Unleaded Regular	129.8	138.2	141.7	141.2	140.0	139.1	138.2	137.6	137.6	137.1	136.9	136.5	**137.8**
Unleaded Premium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**NA**
Average All Grades	**126.9**	**135.6**	**138.8**	**138.1**	**137.0**	**136.2**	**135.3**	**134.8**	**135.8**	**135.3**	**135.1**	**134.8**	**135.3**
1982													
Leaded Regular	128.5	126.0	120.6	114.8	116.6	124.2	126.3	125.4	123.6	121.9	120.7	118.1	**122.2**
Unleaded Regular	135.8	133.4	128.4	122.5	123.7	130.9	133.1	132.3	130.8	129.5	128.3	126.0	**129.6**
Unleaded Premium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**NA**
Average All Grades	**134.1**	**131.8**	**126.8**	**121.0**	**122.4**	**129.6**	**131.8**	**131.0**	**129.5**	**128.0**	**126.8**	**124.4**	**128.1**
1983													
Leaded Regular	114.6	109.9	106.4	113.1	117.7	119.7	120.7	120.3	118.9	117.2	115.6	114.6	**115.7**
Unleaded Regular	122.8	118.7	115.1	121.5	125.9	127.7	128.8	128.5	127.4	125.5	124.1	123.1	**124.1**
Unleaded Premium	137.6	133.8	130.8	136.0	139.7	141.1	142.1	141.9	141.0	139.5	138.4	137.6	**138.3**
Average All Grades	**121.3**	**117.0**	**113.5**	**119.8**	**124.3**	**126.1**	**127.2**	**126.9**	**125.7**	**123.9**	**122.4**	**121.5**	**122.5**
1984													
Leaded Regular	113.1	112.5	112.5	114.5	115.4	114.7	112.9	111.6	112.0	112.7	112.4	110.9	**112.9**
Unleaded Regular	121.6	120.9	121.0	122.7	123.6	122.9	121.2	119.6	120.3	120.9	120.7	119.3	**121.2**
Unleaded Premium	136.9	136.1	136.2	137.5	138.0	137.7	137.0	135.5	136.0	136.5	136.4	135.4	**136.6**
Average All Grades	**120.0**	**119.3**	**119.4**	**121.1**	**122.1**	**121.4**	**119.7**	**118.4**	**118.9**	**119.5**	**119.3**	**117.9**	**119.8**
1985													
Leaded Regular	106.0	104.1	107.1	111.9	114.4	115.3	115.4	114.3	112.9	111.7	112.3	112.3	**111.5**
Unleaded Regular	14.8	113.1	115.9	120.5	123.1	124.1	124.2	122.9	121.6	120.4	120.7	120.8	**120.2**
Unleaded Premium	130.4	129.0	131.0	134.0	136.0	137.1	136.7	135.9	134.9	134.2	133.9	134.4	**134.0**
Average All Grades	**114.5**	**112.8**	**115.5**	**119.9**	**122.3**	**123.3**	**123.3**	**122.2**	**120.9**	**119.8**	**120.1**	**120.3**	**119.6**
1986													
Leaded Regular	110.7	103.4	89.4	81.5	85.2	88.5	82.2	77.8	79.7	77.1	76.2	76.4	**85.7**
Unleaded Regular	119.4	112.0	98.1	88.8	92.3	95.5	89.0	84.3	86.0	83.1	82.1	82.3	**92.7**
Unleaded Premium	133.6	128.2	116.0	106.1	107.5	110.0	104.5	99.9	101.0	98.7	98.0	98.4	**108.5**
Average All Grades	**119.0**	**119.9**	**98.3**	**89.5**	**92.7**	**35.8**	**89.5**	**84.8**	**86.4**	**83.7**	**82.7**	**83.0**	**93.8**

* Weighted average. Also includes gasoline types not listed separately.

Data from Oil & Gas Energy Database.
Source: Bureau of Labor Statistics

U.S. Average Wholesale Product Prices

Distillate
Cents per gallon

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1978	NA	NA	NA	NA	NA	NA	35.2	35.1	35.4	36.1	36.8	37.8	**NA**
1979	38.8	39.9	41.6	44.5	47.3	52.5	57.1	61.7	66.0	67.0	67.3	69.4	**54.5**
1980	73.5	76.4	76.7	77.0	77.6	78.3	78.6	78.7	78.5	79.3	80.8	83.2	**78.2**
1981	89.2	97.3	100.4	100.1	99.5	98.2	97.7	97.3	96.6	96.3	96.6	97.2	**97.2**
1982	96.6	92.1	87.7	85.5	89.2	93.4	93.4	91.7	91.2	95.4	97.1	90.1	**91.9**
1983	84.6	79.8	74.4	75.7	80.3	80.1	80.0	80.9	83.3	81.9	81.1	78.6	**80.1**
1984	82.4	85.3	79.4	79.8	81.3	81.0	78.1	77.0	78.1	79.3	77.9	75.8	**79.6**
1985	73.8	73.5	75.8	79.6	78.1	73.2	70.0	71.7	76.6	81.0	84.9	81.7	**76.7**
1986	70.6	53.2	48.2	45.6	43.6	37.7	33.0	41.1	41.3	40.0	41.4	43.2	**44.9**

Kerosine
Cents per gallon

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1978	NA	NA	NA	NA	NA	NA	36.7	36.7	37.0	37.7	35.6	39.6	**NA**
1979	40.4	41.5	43.5	46.7	49.8	54.9	59.4	63.6	67.8	69.2	69.7	71.9	**56.5**
1980	75.9	78.6	79.1	79.1	79.6	80.6	80.8	80.6	80.4	81.3	82.6	84.6	**80.3**
1981	91.6	100.7	103.1	102.9	102.2	101.3	100.6	100.2	99.5	99.2	99.3	100.1	**100.0**
1982	100.9	97.7	93.0	90.8	94.7	98.7	98.7	97.4	96.5	100.5	102.3	95.2	**97.2**
1983	89.6	85.0	79.4	80.5	85.3	84.9	85.0	86.2	88.4	87.0	86.6	83.6	**85.1**
1984	87.6	90.5	84.5	84.8	86.3	86.2	83.3	82.1	83.2	84.4	83.1	81.1	**84.8**
1985	78.9	78.6	80.9	84.7	83.2	78.3	75.1	76.8	81.6	86.0	89.8	86.5	**81.7**
1986	75.7	58.6	53.1	50.7	48.4	42.8	38.0	46.2	46.3	45.0	46.3	48.1	**49.9**

Residual Fuel
Cents per gallon

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1978	NA	NA	NA	NA	NA	NA	22.5	22.1	22.2	23.0	24.0	25.2	**NA**
1979	25.4	25.8	28.0	30.0	31.9	33.1	34.1	36.6	38.3	39.3	39.7	41.5	**33.6**
1980	43.0	43.4	41.8	39.0	37.9	37.9	40.9	44.1	45.1	47.0	52.6	60.6	**44.4**
1981	61.5	65.0	64.9	64.8	64.4	60.7	59.1	58.1	58.4	58.9	59.5	58.9	**61.2**
1982	58.0	56.9	55.7	55.5	57.0	58.1	58.3	56.4	58.3	59.0	62.0	58.5	**57.8**
1983	57.3	55.8	55.2	55.7	56.9	56.9	57.3	57.9	58.6	58.8	58.8	58.4	**57.3**
1984	58.7	59.4	58.7	59.5	59.7	60.1	59.3	58.2	58.8	59.0	59.1	59.2	**59.1**
1985	59.3	59.5	59.3	58.4	56.0	53.6	54.2	54.0	55.4	55.8	56.0	55.5	**56.4**
1986	53.2	44.3	40.0	36.2	32.9	30.8	28.5	28.5	33.2	34.3	35.2	37.9	**36.2**

Data from Oil & Gas Journal Energy Database.
Source: Independent Petroleum Association of America

U.S. Average Retail Product Prices

#2 Heating Oil (Distillate)
Cents per gallon

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1983	92.0	87.1	80.6	80.2	82.5	82.0	82.3	83.3	85.2	84.7	84.5	92.1	**84.7**
1984	97.7	104.6	94.7	91.9	90.9	86.9	84.3	82.8	84.3	87.3	87.7	88.1	**90.1**
1985	87.0	86.1	86.0	85.8	82.2	77.8	72.4	74.4	81.1	85.2	91.3	92.3	**83.5**
1986	87.1	69.9	63.0	55.0	50.0	44.4	38.4	43.8	46.1	44.8	48.3	51.5	**53.5**

#2 Residual Fuel Oil
Cents per gallon

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1979	33.6	35.0	38.0	39.5	40.9	42.8	47.4	48.4	49.8	51.4	54.4	58.2	**44.9**
1980	62.4	63.0	60.3	54.5	56.5	57.4	56.8	59.5	60.3	63.5	71.7	77.0	**61.9**
1981	80.1	85.8	86.0	82.6	81.2	73.9	72.8	72.7	72.2	72.2	71.8	73.6	**77.1**
1982	68.8	69.1	67.4	65.1	66.7	68.8	68.1	66.2	66.3	68.1	70.0	66.4	**67.6**
1983	64.2	62.0	60.9	61.0	63.2	64.7	65.9	67.7	69.0	68.7	67.4	67.2	**65.2**
1984	69.0	70.4	68.5	69.1	69.5	71.0	69.0	67.1	67.5	67.8	67.9	67.7	**68.7**
1985	68.4	68.7	67.2	64.1	59.5	55.6	56.4	55.8	58.6	58.3	56.8	58.2	**60.6**
1986	57.1	45.8	39.0	33.0	30.1	29.8	25.9	26.5	29.8	30.1	31.2	34.7	**34.4**

Consumer Grade Propane
Cents per gallon

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1982	57.8	57.7	57.3	57.3	57.8	57.7	55.1	56.7	59.9	60.7	63.2	64.2	**58.8**
1983	72.7	71.7	68.1	68.6	72.2	67.3	66.4	68.9	74.9	69.6	72.8	76.4	**70.8**
1984	76.8	76.3	76.4	76.5	70.4	70.6	69.6	71.9	73.4	74.1	73.8	70.0	**73.3**
1985	78.8	76.1	74.6	75.7	70.5	66.8	62.9	62.9	63.8	69.7	72.2	75.2	**70.8**
1986	77.8	71.4	75.1	75.9	73.1	73.5	70.2	68.4	70.4	69.8	69.6	72.0	**72.3**

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration

U.S. Average Retail Product Prices

Kerosine
Cents per gallon

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1976	37.2	35.6	35.2	35.1	34.9	32.7	33.6	34.9	35.8	37.4	37.4	38.4	**35.7**
1977	39.2	39.1	39.3	40.8	39.6	39.5	37.8	38.8	39.3	41.0	42.6	42.6	**40.0**
1978	41.4	40.6	41.2	44.1	42.9	40.6	41.9	42.2	42.6	46.3	45.8	44.8	**42.9**
1979	46.8	48.8	50.4	52.8	54.1	58.6	61.4	64.6	71.7	73.3	73.8	74.7	**60.9**
1980	79.1	83.6	89.1	88.8	89.2	90.3	88.8	88.9	91.0	91.8	97.6	102.3	**90.0**
1981	106.6	118.3	119.1	117.8	113.7	111.1	110.3	113.4	113.9	112.6	112.2	111.9	**113.4**
1982	111.0	110.5	112.0	102.9	104.9	109.2	108.8	101.7	102.5	107.5	113.7	108.0	**107.7**
1983	104.0	101.4	97.2	93.4	93.8	90.0	89.0	90.8	92.7	98.9	100.0	96.6	**95.7**
1984	106.8	117.9	111.3	105.8	102.4	94.3	90.6	92.8	99.2	102.7	106.1	101.4	**102.6**
1985	106.0	103.7	103.1	101.0	94.1	88.2	86.0	89.9	96.0	100.4	106.7	111.5	**98.9**
1986	105.4	93.4	85.0	79.4	67.2	49.3	48.2	62.5	75.1	69.5	74.5	76.8	**73.9**

Kerosine Type Jet Fuel
Cents per gallon

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1977	33.2	34.1	34.6	34.9	35.1	35.7	35.8	36.0	37.0	37.3	37.5	37.8	**35.8**
1978	38.5	38.2	38.4	38.5	38.6	38.9	38.9	39.3	39.3	39.3	39.4	39.5	**38.9**
1979	40.1	40.2	41.3	45.4	48.4	50.9	58.2	60.8	65.9	68.4	69.7	72.3	**55.1**
1980	77.0	83.0	86.3	87.4	87.6	88.6	89.7	90.7	88.8	88.7	91.0	91.6	**87.5**
1981	95.7	101.6	106.3	106.4	106.2	104.8	103.8	103.3	103.3	101.1	102.6	102.2	**103.1**
1982	101.0	100.4	99.0	96.2	94.9	94.7	94.7	94.8	94.5	95.2	95.8	95.0	**96.4**
1983	94.5	92.6	90.6	88.8	87.8	86.3	85.6	85.5	86.1	86.0	85.8	85.5	**87.9**
1984	85.8	86.5	85.6	85.1	85.2	84.5	84.1	83.4	83.1	83.2	82.4	82.2	**84.3**
1985	81.4	80.9	80.4	80.1	79.5	78.6	78.2	77.7	78.1	78.8	80.1	80.9	**79.6**
1986	80.5	77.9	69.0	57.3	51.9	48.2	43.4	41.0	41.4	41.6	42.4	42.9	**53.1**

Data from Oil & Gas Journal Energy Database,
Source: Energy Information Administration

Spot Market Product Prices
New York Harbor
Dollars per barrel

	Leaded Gasoline	Unleaded Gasoline	Gas Oil/ Heating Oil	Residual Fuel Oil
1980				
1st Qtr	42.55	NA	31.42	23.83
2nd Qtr	42.21	NA	32.68	21.13
3rd Qtr	37.15	NA	31.96	24.25
4th Qtr	40.20	NA	36.08	31.15
1981				
1st Qtr	43.19	NA	41.82	35.78
2nd Qtr	41.85	NA	38.81	29.49
3rd Qtr	42.53	NA	39.22	28.22
4th Qtr	41.41	NA	41.42	29.41
1982				
1st Qtr	36.87	NA	37.00	28.03
2nd Qtr	40.52	NA	38.32	28.48
3rd Qtr	39.67	NA	38.67	27.90
4th Qtr	37.23	NA	38.77	28.54
1983				
1st Qtr	34.77	NA	32.40	25.52
2nd Qtr	37.21	NA	33.97	27.21
3rd Qtr	36.34	NA	34.73	28.86
4th Qtr	33.11	NA	33.49	28.28
1984				
1st Qtr	34.05	NA	36.25	29.99
2nd Qtr	33.41	NA	34.66	29.45
3rd Qtr	32.23	NA	32.51	28.43
4th Qtr	30.18	NA	31.86	28.71
1985				
1st Qtr	30.88	NA	32.39	28.63
2nd Qtr	34.34	NA	31.01	23.93
3rd Qtr	32.85	NA	30.91	23.74
4th Qtr	32.70	NA	35.43	24.23
1986				
1st Qtr	22.54	22.16	25.17	18.32
2nd Qtr	20.73	20.21	17.88	12.96
3rd Qtr	17.50	16.68	16.03	11.56
4th Qtr	18.50	17.51	17.61	13.81

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration

Motor Gasoline and Residential Heating Oil Prices Current and Constant Dollars Cents per gallon, including tax

	Motor Gasoline* Current $	Residential Heating Oil+ Current $	Consumer Price Index 1967=100	Motor Gasoline* Constant $	Residential Heating Oil+ Constant $
1918	25.1	NA	45.1	55.7	NA
1919	25.5	NA	51.8	49.2	NA
1920	29.8	NA	60.0	49.7	NA
1921	26.3	NA	53.6	49.1	NA
1922	25.2	NA	50.2	50.2	NA
1923	22.0	NA	51.1	43.0	NA
1924	21.0	NA	51.2	40.9	NA
1925	22.2	NA	52.5	42.3	NA
1926	23.4	NA	53.0	44.1	NA
1927	21.1	NA	52.0	40.6	NA
1928	20.9	NA	51.3	40.8	NA
1929	21.4	NA	51.3	41.8	NA
1930	20.0	NA	50.0	39.9	NA
1931	17.0	NA	45.6	37.2	NA
1932	17.9	NA	40.9	43.8	NA
1933	17.8	NA	38.8	45.9	NA
1934	18.9	NA	40.1	47.0	NA
1935	18.8	NA	41.1	45.8	NA
1936	19.5	NA	41.5	46.9	NA
1937	20.0	NA	43.0	46.5	NA
1938	19.5	NA	42.2	46.2	NA
1939	18.8	NA	41.6	45.1	NA
1940	18.4	NA	42.0	43.8	NA
1941	19.2	NA	44.1	43.6	NA
1942	20.4	NA	48.8	41.9	NA
1943	20.5	NA	51.8	39.6	NA
1944	20.6	NA	52.7	39.1	NA
1945	20.5	NA	53.9	38.0	NA
1946	20.8	NA	58.5	35.5	NA
1947	23.1	NA	66.9	34.5	NA
1948	25.9	NA	72.1	35.9	NA
1949	26.8	NA	71.4	37.5	NA
1950	26.8	NA	72.1	37.1	NA
1951	27.2	NA	77.8	34.9	NA
1952	27.6	NA	79.5	34.7	NA
1953	28.7	NA	80.1	35.8	NA
1954	29.0	NA	80.5	36.1	NA

Motor Gasoline and Residential Heating Oil Prices
Current and Constant Dollars
Cents per gallon, including tax

	Motor Gasoline* Current $	Residential Heating Oil+ Current $	Consumer Price Index 1967=100	Motor Gasoline* Constant $	Residential Heating Oil+ Constant $
1955	29.1	NA	80.2	36.2	NA
1956	29.9	15.2	81.4	36.8	18.7
1957	31.0	16.0	84.3	36.7	19.0
1958	30.4	15.1	86.6	35.1	17.4
1959	30.5	15.3	87.3	34.9	17.5
1960	31.1	15.0	88.7	35.1	16.9
1961	30.8	15.6	89.6	34.3	17.4
1962	30.6	15.6	90.6	33.8	17.2
1963	30.4	16.0	91.7	33.2	17.4
1964	30.4	16.1	92.9	32.7	17.3
1965	31.2	16.0	94.5	33.0	16.9
1966	32.1	16.4	97.2	33.0	16.9
1967	33.2	16.9	100.0	33.2	16.9
1968	33.7	17.4	104.2	32.4	16.7
1969	34.8	17.8	109.8	31.7	16.2
1970	35.7	18.5	116.3	30.7	15.9
1971	36.4	19.6	121.3	30.0	16.2
1972	36.1	19.7	125.3	28.8	15.7
1973	38.8	22.8	133.1	29.2	17.1
1974	52.4	36.0	147.7	35.5	24.4
1975	57.2	37.7	161.2	35.5	23.4
1976	59.5	40.6	170.5	34.9	23.8
1977	63.1	46.0	181.5	34.7	25.3
1978	65.7	49.0	195.4	33.6	25.1
1979	87.8	70.4	217.4	40.4	32.4
1980	119.1	97.4	246.8	48.3	39.5
1981	131.1	119.4	272.3	48.1	43.8
1982	122.2	116.0	289.1	42.3	40.1
1983	115.7	107.8	298.4	38.8	36.1
1984	112.9	109.1	311.1	36.3	35.1
1985	111.5	105.3	322.2	34.6	32.7
1986	85.7	84.4	328.4	26.1	25.7

* Leaded regular.
+ #2 fuel oil.

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration, Oil & Gas Journal,
Texaco Inc., American Petroleum Institute

Motor Gasoline Price
U.S. cents per gallon

	1978	1979	1980	1981	1982	1983	1984	1985	1986
Australia	79.87	105.61	131.35	154.45	149.15	149.15	157.47	138.93	131.73
Austria	182.46	213.12	254.00	249.46	250.60	233.18	215.77	217.66	236.21
Belgium	190.79	230.91	299.43	278.99	247.19	233.18	208.58	215.39	216.53
Canada	70.03	73.44	84.42	113.18	136.65	147.25	148.39	145.36	131.35
Denmark	189.27	243.40	304.73	282.02	269.52	250.97	218.80	219.18	300.56
Finland	183.22	208.58	292.99	291.86	272.93	250.60	239.24	233.18	236.21
France	213.50	255.90	302.84	269.14	254.76	236.59	223.34	237.35	257.79
Germany, West	174.89	205.55	242.65	237.73	217.28	203.66	186.24	185.49	187.76
Greece	211.23	255.52	300.94	267.25	247.19	215.39	185.49	183.22	210.85
Ireland	145.36	176.02	249.08	257.79	275.58	277.85	255.52	265.74	300.56
Italy	222.96	246.43	309.27	295.26	288.45	292.24	277.85	261.95	324.79
Japan	197.98	208.96	257.03	262.71	258.55	255.14	230.91	221.21	276.34
Luxembourg	NA	177.16	230.91	212.74	207.06	192.68	175.27	173.75	177.54
Netherlands	188.51	224.48	273.31	256.27	246.81	230.15	213.12	209.71	230.15
New Zealand	120.00	133.63	181.32	195.33	194.57	179.81	171.10	174.13	163.53
Norway	188.89	211.61	284.29	286.94	269.14	255.52	241.51	230.15	243.03
Portugal	224.10	255.52	328.95	315.33	286.94	269.90	244.92	242.65	288.07
Spain	182.84	221.45	285.04	274.82	244.54	226.75	218.80	207.06	221.83
Sweden	155.96	193.81	263.85	263.85	238.86	206.69	192.68	204.79	220.31
Switzerland	194.19	241.89	260.82	241.89	235.08	219.18	194.95	194.19	213.12
United Kingdom	121.13	177.16	249.08	256.27	241.51	224.86	204.41	209.33	205.93
United States	67.00	90.09	124.16	137.79	129.46	123.78	121.51	119.62	92.74

Data from Oil & Gas Journal Energy Database.
Source: International Energy Agency

Home Heating Oil Price
U.S. cents per gallon

	1978	1979	1980	1981	1982	1983	1984	1985	1986
Australia	56.95	75.09	111.48	132.23	138.83	142.85	NA	NA	NA
Austria	NA	NA	NA	150.91	144.23	129.04	128.68	127.18	129.52
Belgium	59.62	88.66	125.33	120.91	121.37	103.68	100.56	104.33	72.08
Canada	41.29	43.82	53.19	73.20	88.10	97.79	99.28	103.38	86.80
Denmark	68.37	110.89	160.02	158.35	157.17	141.65	128.75	128.98	168.00
Finland	53.78	71.52	115.33	122.53	111.75	106.21	101.48	99.93	79.60
France	71.14	92.80	138.39	139.53	136.48	129.09	118.45	126.63	109.96
Germany, West	57.93	103.33	128.84	119.13	122.73	106.20	101.41	102.03	74.62
Greece	NA	69.93	119.58	113.86	102.79	96.34	86.87	90.82	104.14
Ireland	59.75	81.69	123.00	122.20	123.99	120.46	105.55	117.00	99.81
Italy	65.41	83.59	134.45	121.73	131.29	136.05	130.93	133.02	134.92
Japan	63.46	85.72	128.12	153.43	143.01	154.49	122.53	119.36	NA
Luxembourg	NA	83.41	118.57	116.09	109.08	101.79	95.41	95.85	76.38
Netherlands	66.38	92.29	134.43	140.08	133.45	114.51	111.06	110.02	91.57
New Zealand	66.13	74.49	123.85	142.26	155.25	149.51	137.18	136.07	123.69
Norway	67.33	82.02	131.04	146.19	142.95	133.74	121.87	116.69	91.38
Portugal	64.61	82.63	123.81	141.35	142.89	140.87	143.52	147.02	171.16
Spain	32.09	46.52	95.68	116.35	108.54	97.59	96.51	100.17	112.23
Sweden	52.03	74.87	120.89	124.11	128.26	112.74	114.24	117.49	94.86
Switzerland	56.52	111.05	115.03	110.33	109.22	96.86	90.66	90.98	72.81
United Kingdom	61.13	86.82	129.88	131.18	133.00	118.81	102.94	104.81	75.97
United States	50.09	64.26	99.17	118.05	120.25	105.63	109.68	107.77	82.51

Data from Oil & Gas Journal Energy Database.
Source: International Energy Agency

Price of Heavy Fuel Oil for Electric Generation
U.S. dollars per barrel

	1978	1979	1980	1981	1982	1983	1984	1985	1986
Australia	14.07	17.46	30.41	37.39	36.88	36.62	NA	NA	NA
Austria	14.54	16.97	25.23	25.68	26.89	26.15	23.13	NA	NA
Belgium	13.86	16.44	28.26	30.51	27.36	26.18	28.93	26.00	14.01
Canada	10.74	11.57	12.24	17.45	19.64	23.70	21.36	NA	NA
Denmark	NA	16.28	24.97	29.15	28.73	22.41	NA	NA	NA
Finland	14.96	18.96	31.10	34.20	31.76	28.70	28.54	31.60	21.94
France	13.81	17.05	27.21	30.07	28.59	27.59	NA	NA	NA
Germany, West	15.91	22.35	30.27	33.41	29.30	27.73	29.50	27.71	15.80
Greece	10.44	11.89	20.88	24.88	23.63	23.15	23.05	NA	NA
Ireland	NA	NA	NA	NA	NA	NA	NA	NA	14.59
Italy	13.13	18.10	27.76	31.37	27.77	27.05	28.64	26.44	NA
Japan	16.78	25.42	38.35	44.98	40.93	37.72	36.13	34.29	NA
Netherlands	13.96	20.04	29.49	33.37	29.60	28.08	30.75	27.62	NA
Portugal	10.11	13.31	19.90	23.53	27.48	24.21	19.50	17.14	19.15
Spain	13.49	16.78	25.81	33.11	31.28	29.37	28.50	30.64	22.95
Sweden	14.10	23.38	30.50	33.34	28.14	27.58	28.68	25.06	14.69
United Kingdom	14.61	18.46	30.53	33.22	29.29	28.04	30.84	32.75	NA
United States	13.59	19.10	27.28	34.10	30.77	29.27	30.88	27.15	15.33

Data from Oil & Gas Journal Energy Database
Source: International Energy Agency

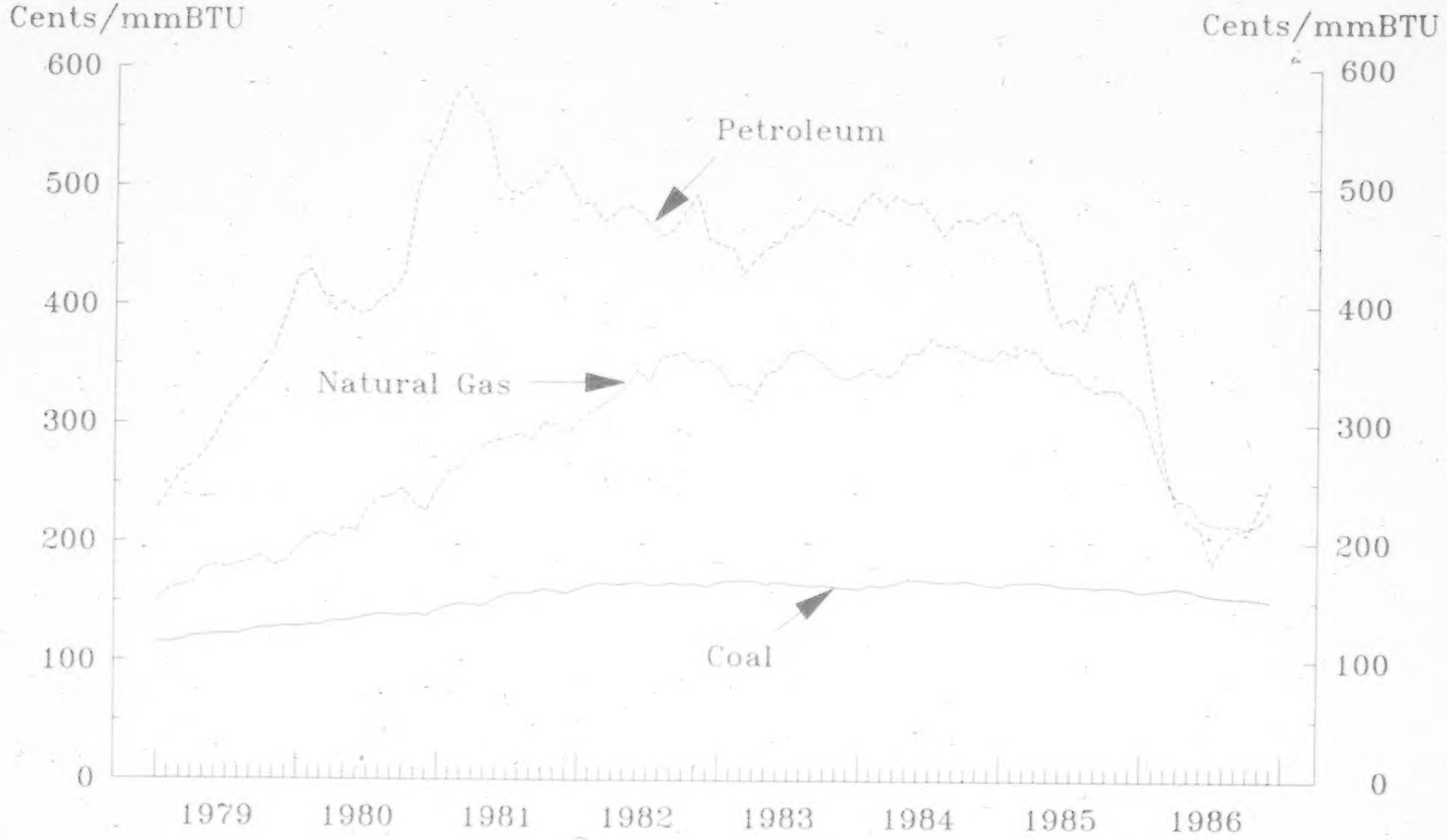
Total U.S. Fossil Fuel Prices
Cents per million BTU

	Crude Oil *	Natural Gas +	Anthracite Coal	Other Coal	Weighted Average
1949	43.8	5.4	36.4	19.5	26.2
1950	43.3	6.3	37.9	19.3	25.6
1951	43.6	6.3	40.7	19.6	25.9
1952	43.6	7.2	39.3	19.5	26.1
1953	46.2	8.1	40.7	19.5	27.3
1954	47.9	9.0	36.1	18.0	27.7
1955	47.8	8.9	33.1	17.8	27.1
1956	48.1	9.9	34.9	19.1	27.8
1957	53.3	9.9	38.3	20.1	29.9
1958	51.9	10.8	38.0	19.4	29.2
1959	50.0	11.7	35.9	19.1	28.6
1960	49.7	12.6	33.8	18.8	28.3
1961	49.8	13.5	34.6	18.4	28.6
1962	50.0	14.5	33.6	18.0	28.8
1963	49.8	14.5	36.6	17.6	28.3
1964	49.7	13.6	38.0	17.9	27.7
1965	49.3	14.5	36.3	17.9	27.7
1966	49.7	14.5	34.8	18.4	28.0
1967	50.3	14.5	36.0	18.8	28.4
1968	50.7	14.3	39.2	19.1	28.5
1969	53.3	15.4	44.0	20.5	29.9
1970	54.8	15.4	48.8	26.2	31.7
1971	58.4	16.3	53.2	30.1	34.0
1972	58.4	17.3	55.3	32.7	35.0
1973	67.1	20.1	61.7	36.5	39.8
1974	118.4	27.3	102.2	68.2	67.6
1975	132.2	41.1	149.5	83.9	82.5
1976	141.2	53.1	153.8	85.0	90.2
1977	147.8	72.3	153.8	87.7	100.8
1978	155.2	83.6	152.7	97.9	111.6
1979	217.9	108.1	177.2	105.3	141.7
1980	372.2	144.8	185.9	109.4	204.2
1981	547.8	179.5	190.1	117.9	274.5
1982	491.7	222.2	214.0	122.1	275.8
1983	451.6	232.3	230.0	117.2	270.1
1984	446.2	239.9	208.7	115.9	264.6
1985	415.3	225.5	204.2	114.8	251.2
1986	218.3	168.0	200.6	111.7	165.1

* Includes lease condensate.
+ Wet natural gas

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Cost of Fossil Fuels Delivered to Electric Plants



Source: EIA

U.S. Average Cost of Fossil Fuels
Delivered to Electric Plants
Cents per million BTU

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1979													
Coal	115.8	114.6	116.8	120.1	121.1	121.8	122.2	122.5	125.3	127.4	127.7	129.2	**122.0**
Petroleum	228.1	240.6	258.8	264.6	274.1	289.3	311.8	323.5	333.5	346.1	363.1	394.8	**302.4**
Natural Gas	150.2	159.1	163.0	164.7	177.5	179.5	178.9	180.9	183.5	189.1	180.3	183.3	**174.2**
Average Cost	**150.4**	**154.3**	**152.3**	**151.4**	**158.0**	**161.2**	**168.7**	**167.1**	**167.9**	**167.3**	**171.5**	**183.8**	**162.8**
1980													
Coal	128.7	129.9	130.1	133.8	133.3	135.1	137.4	139.5	138.9	138.1	139.3	137.8	**135.2**
Petroleum	423.5	429.7	411.0	394.9	403.1	392.7	394.5	404.9	411.3	425.2	496.0	521.9	**425.7**
Natural Gas	194.8	203.9	207.9	204.0	212.0	209.3	228.5	237.2	238.7	245.7	231.3	226.3	**220.0**
Average Cost	**187.3**	**189.8**	**184.8**	**178.2**	**180.3**	**178.8**	**199.0**	**198.2**	**193.5**	**192.2**	**200.0**	**206.6**	**190.6**
1981													
Coal	142.7	146.3	148.3	146.9	146.7	152.7	156.5	157.0	157.2	160.2	159.1	156.7	**152.5**
Petroleum	540.2	572.9	583.9	568.3	552.8	506.1	496.3	494.4	501.0	511.9	521.0	505.0	**529.5**
Natural Gas	245.9	260.5	264.0	273.5	282.7	286.3	288.6	291.1	286.5	300.7	300.0	291.4	**280.9**
Average Cost	**219.2**	**218.2**	**215.0**	**241.9**	**250.6**	**234.6**	**227.5**	**220.2**	**212.3**	**217.7**	**215.1**	**215.5**	**224.0**
1982													
Coal	160.9	164.1	165.7	164.6	165.1	167.0	164.5	164.7	165.9	164.9	165.3	162.9	**164.6**
Petroleum	484.6	487.6	470.9	478.0	485.7	479.6	468.8	458.8	464.4	479.3	493.4	456.3	**475.6**
Natural Gas	301.0	310.4	315.8	323.4	331.6	345.8	335.9	355.7	358.5	360.4	351.5	355.4	**337.1**
Average Cost	**226.4**	**220.7**	**219.8**	**214.3**	**215.7**	**224.7**	**237.6**	**227.6**	**226.9**	**220.1**	**218.2**	**216.8**	**222.4**
1983													
Coal	166.7	167.7	168.1	168.1	165.1	167.3	165.5	164.4	164.1	164.7	163.3	162.2	**165.6**
Petroleum	451.6	449.2	427.5	439.5	449.0	454.2	466.9	468.2	482.2	479.6	473.4	468.7	**459.2**
Natural Gas	346.9	331.9	334.9	325.5	343.5	346.7	361.1	363.1	358.1	350.1	340.7	338.7	**345.1**
Average Cost	**216.0**	**212.6**	**215.1**	**216.2**	**216.6**	**220.8**	**237.4**	**230.6**	**226.8**	**219.9**	**212.5**	**219.0**	**220.3**
1984													
Coal	161.6	164.9	163.4	165.7	168.6	169.1	168.2	167.2	167.4	168.7	166.6	165.0	**166.4**
Petroleum	488.9	496.3	484.0	494.1	486.9	488.3	474.6	459.6	472.5	474.1	470.6	480.4	**480.9**
Natural Gas	343.7	347.5	339.8	344.4	360.4	360.9	373.1	365.6	368.0	361.4	357.2	355.4	**356.5**
Average Cost	**221.0**	**217.4**	**208.4**	**210.6**	**220.3**	**223.2**	**231.3**	**223.5**	**217.5**	**218.8**	**216.8**	**218.7**	**219.0**
1985													
Coal	164.1	167.0	167.1	167.6	166.8	165.0	164.2	164.0	163.2	163.5	163.6	161.0	**164.8**
Petroleum	472.0	482.4	458.8	452.1	403.1	384.9	392.8	380.5	419.0	415.8	397.2	424.3	**423.6**
Natural Gas	364.4	358.1	364.9	361.6	346.1	344.8	344.0	334.8	328.7	330.4	329.3	320.9	**344.0**
Average Cost	**218.7**	**218.1**	**209.5**	**210.6**	**206.3**	**208.1**	**217.4**	**211.1**	**204.9**	**204.3**	**204.5**	**202.9**	**209.7**
1986													
Coal	159.5	161.1	161.7	163.6	162.3	159.2	157.0	156.1	154.9	154.7	153.3	152.2	**158.0**
Petroleum	392.6	302.3	266.5	229.7	218.9	214.4	184.3	203.8	213.0	208.6	231.8	252.7	**243.2**
Natural Gas	313.5	281.0	255.8	237.8	235.1	221.4	217.2	216.4	216.7	214.0	217.3	230.0	**238.0**
Average Cost	**194.7**	**185.4**	**179.8**	**177.7**	**177.7**	**174.1**	**171.1**	**170.4**	**168.6**	**165.9**	**166.1**	**170.3**	**175.2**

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration

U.S. Price of Electricity
Cents per kilowatt hour

	Residential Sector	Commercial Sector	Industrial Sector	Other Sectors	All Sectors
1960	2.62	2.42	1.06	1.91	1.82
1961	2.60	2.43	1.08	1.83	1.82
1962	2.56	2.38	1.05	1.86	1.80
1963	2.51	2.34	1.04	1.83	1.77
1964	2.45	2.22	1.01	1.83	1.73
1965	2.39	2.18	1.00	1.82	1.70
1966	2.34	2.13	0.98	1.80	1.66
1967	2.31	2.11	0.98	1.76	1.65
1968	2.25	2.07	0.97	1.76	1.63
1969	2.21	2.06	0.98	1.74	1.63
1970	2.22	2.08	1.02	1.80	1.67
1971	2.32	2.20	1.10	1.91	1.77
1972	2.42	2.29	1.16	1.98	1.86
1973	2.54	2.41	1.25	2.10	1.96
1974	3.10	3.04	1.69	2.75	2.49
1975	3.51	3.45	2.07	3.08	2.92
1976	3.73	3.69	2.21	3.27	3.09
1977	4.05	4.09	2.50	3.51	3.42
1978	4.31	4.36	2.79	3.62	3.69
1979	4.64	4.68	3.05	3.96	3.99
1980	5.36	5.48	3.69	4.76	4.73
1981	6.20	6.29	4.29	5.28	5.46
1982	6.86	6.86	4.95	5.92	6.13
1983	7.18	7.01	4.97	6.36	6.29
1984	7.54	7.33	5.04	6.78	6.52
1985	7.79	7.47	5.16	6.96	6.71
1986	7.41	7.13	4.87	6.64	6.40

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Price of Electricity for Residential Use
U.S. cents per kilowatt hour

	1978	1979	1980	1981	1982	1983	1984	1985	1986
Australia	3.90	4.10	4.50	5.20	5.80	5.90	6.00	5.20	5.20
Austria	8.00	8.80	10.10	9.00	9.60	9.00	8.50	NA	NA
Belgium	11.50	12.50	14.10	12.90	11.20	10.90	10.20	10.10	NA
Canada	2.50	2.60	2.90	3.10	3.30	3.70	3.70	NA	NA
Denmark	NA	7.60	10.20	10.50	10.00	9.20	7.80	8.60	11.00
Finland	5.80	6.20	7.00	7.00	6.70	5.70	5.20	5.20	NA
France	8.10	9.40	11.50	9.80	9.50	9.10	8.60	8.50	NA
Greece	6.30	6.80	7.50	8.90	8.50	7.20	NA	NA	NA
Germany, West	8.50	9.50	10.00	9.10	9.30	9.00	8.30	8.20	11.50
Ireland	5.90	6.90	10.10	9.90	10.20	9.50	8.80	NA	NA
Italy	4.60	5.20	7.10	6.90	7.00	7.60	7.80	7.70	NA
Japan	9.30	9.20	11.70	13.20	11.80	12.50	12.50	12.30	NA
Luxembourg	7.40	8.40	9.00	7.70	7.10	7.30	6.70	NA	NA
Netherlands	8.20	9.60	11.50	10.90	10.50	9.70	8.80	8.70	NA
Norway	NA	3.10	3.50	3.60	3.80	3.80	3.80	3.90	4.90
New Zealand	2.40	2.50	3.40	3.30	3.10	3.10	2.70	2.90	NA
Portugal	4.60	4.60	7.10	6.90	7.50	7.20	6.90	7.50	9.90
Spain	NA	6.50	8.00	8.90	9.70	8.20	8.30	8.60	NA
Switzerland	6.60	8.80	7.30	7.70	6.40	7.50	5.90	5.90	8.20
United Kingdom	5.30	6.30	8.90	9.30	8.90	7.60	6.90	6.70	NA
United States	4.30	4.60	5.40	6.20	6.90	7.20	7.60	7.80	7.80

Data from Oil & Gas Journal Energy Database.
Source: International Energy Agency

Notes

Revenues and Expenditures

One of the key financial measurements of activity in the industry is the level of capital expenditures. And, as could probably be expected, the level of capital expenditures has closely followed the movements in the price of crude oil and petroleum products.

Since the price of crude oil and products determines the total cash flow into the industry, this relationship could be expected. But prices have even greater impact on industry investment. Not only does the change in prices affect industry revenues directly, but it has a substantial impact on the flow of investment funds from outside the industry. Expectations of future price levels also have a profound effect on outside investment in the petroleum industry.

Capital expenditures in the U.S. oil industry moved up with prices and peaked at $82.9 billion in 1981. This was up from only $11.1 billion spent in 1973 when oil prices first started to rise. As prices began to slide, capital spending fell sharply. Total outlays fell to $26.5 billion in 1986, down 68% from the peak. The preliminary estimate for 1987 shows a further decline to $25 billion. Spending is down to a level close to 1977, completing a 10 year cycle of boom and bust.

The level of drilling, exploration and production expenditures is most affected by the flow of funds from outside the industry. A substantial portion of the funds supporting activity in the independent sector of the U.S. industry comes from outside investors. Their willingness to continue to invest or reinvest their funds in the industry is dependent upon their future expectations of return. Total wellhead revenues generated by production of oil and gas is a key indicator of the level of funds available for investment. And the reinvestment ratio demonstrates the willingness of investors, both outside the industry and within, to invest in drilling and exploration rather than make other use of their funds.

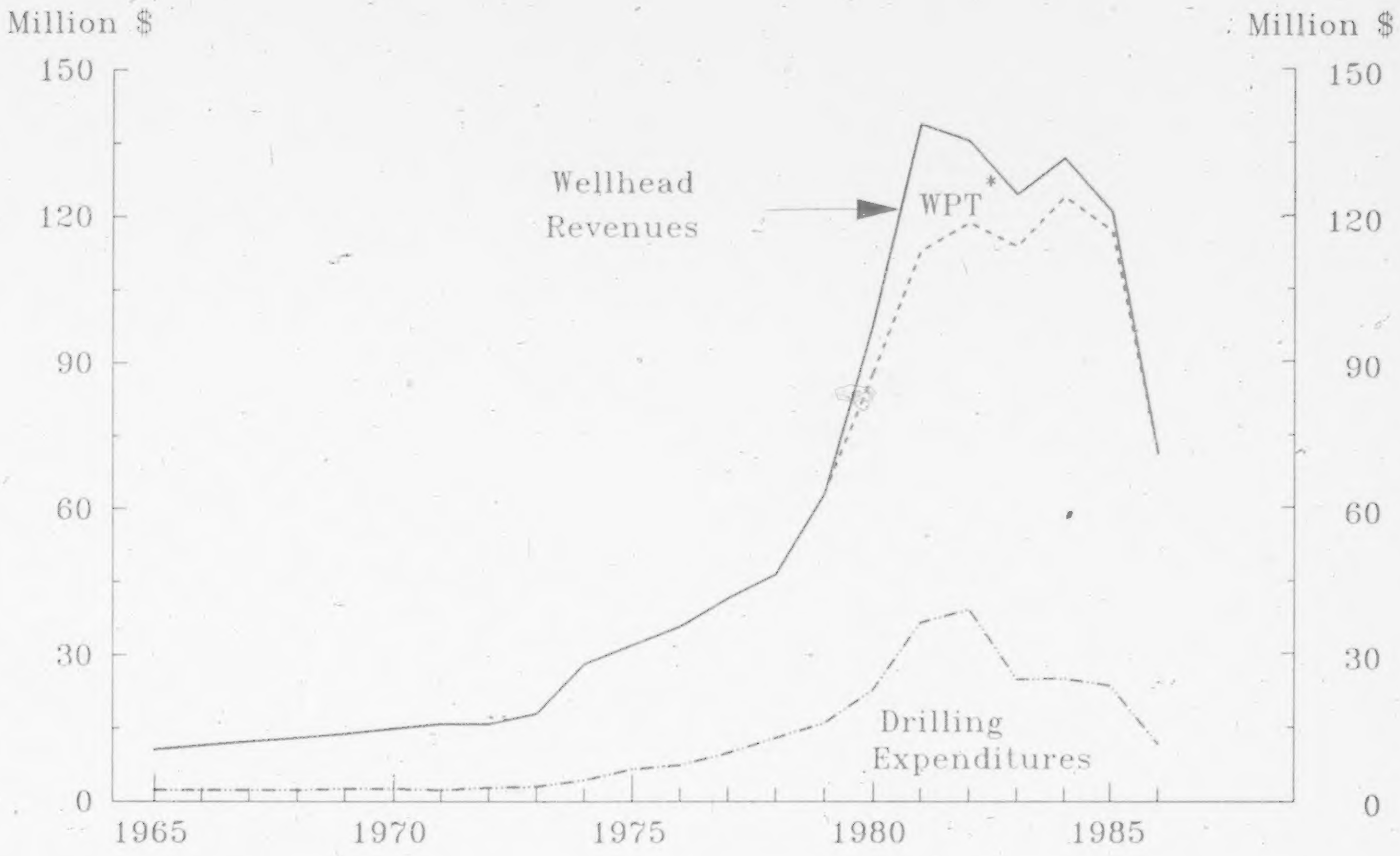
Drilling and exploration outlays in the U.S. moved up from $3.5 billion in 1973 to $43.2 billion in 1981 and $44.3 billion in 1982. This was the peak of the drilling boom in the U.S. Outlays fell to $13.2 billion in 1986 and are estimated at only $11.5 billion in 1987.

This chapter of the Energy Statistics Sourcebook contains the detailed data required to analyze the revenue/expenditure trends within the industry. When coupled with operating data, a clear, concise picture of the industry can be produced. Both the level of activity and the financial impact can be tracked using data from this and other chapters in the Sourcebook.

Revenues and Expenditures

Total Wellhead Revenues & Reinvestment Ratio, Total U.S., Annual, 349
Capital Expenditures Survey, Total U.S., Annual, 350
Value of Petroleum Imports, Current and Constant Dollars, Total U.S., Annual, 351
Severance & Production Taxes Paid, By State, Annual, 352
Value of OPEC Petroleum Exports, By Country, Annual, 354

Wellhead Revenues Reinvested in Drilling



* Windfall Profit Tax

Source: API, JAS, OGJ

Total Wellhead Realizations and Reinvestment
Dollars

	Total Wellhead Revenues	Net of Windfall Profit Tax	Total Drilling Expenditures	Investment Ratio %
1965	10,652,840	NA	2,407,437	22.6
1966	11,429,182	NA	2,360,740	20.7
1967	12,274,468	NA	2,299,178	18.7
1968	12,963,514	NA	2,409,360	18.6
1969	13,882,295	NA	2,610,671	18.8
1970	14,919,586	NA	2,578,682	17.3
1971	15,778,480	NA	2,371,492	15.0
1972	15,886,972	NA	2,814,166	17.7
1973	17,951,977	NA	3,074,532	17.1
1974	28,153,951	NA	4,366,989	15.5
1975	32,061,121	NA	6,571,214	20.5
1976	35,801,316	NA	7,461,680	20.8
1977	41,615,676	NA	9,956,453	23.9
1978	46,562,738	NA	13,061,090	28.1
1979	63,164,966	NA	16,078,930	25.5
1980	97,765,720	87,840,720	22,800,356	26.0
1981	138,947,637	113,003,637	36,665,457	32.4
1982	135,526,277	118,772,277	39,428,119	33.2
1983	124,592,334	113,924,334	25,104,543	22.0
1984	132,048,177	124,174,177	25,206,219	20.3
1985	121,100,304	117,100,304	23,696,602	20.2
1986 *	71,352,150	71,352,150	11,797,240	16.5

* 1986 estimates by Oil & Gas Journal.

Data from Oil & Gas Journal Energy Database.
Source: American Petroleum Institute, Joint Association Survey,
Oil & Gas Journal

OGJ Capital Expenditures Survey
Total U.S.
Millions of dollars

	1972	1973	1974	1975	1976	1977	1978	1979
Drilling/Exploration	3,160	3,453	4,904	7,379	8,379	14,172	15,079	21,926
Production	620	677	962	1,448	1,644	2,659	3,132	4,490
OCS Lease Bonus	2,259	3,082	5,024	1,088	2,243	1,569	1,767	4,590
Subtotal	6,039	7,212	10,890	9,915	12,266	18,400	19,978	31,006
Refining	947	1,104	2,446	1,981	1,819	1,324	1,551	2,725
Petrochemicals	301	269	810	1,122	1,987	1,746	2,675	2,355
Marketing	1,149	915	679	608	627	687	982	851
Crude & Products Pipelines	94	150	1,096	2,894	2,949	1,630	989	1,509
Natural Gas Pipelines	578	600	541	799	686	873	809	1,491
Other Transportation	175	153	163	275	314	438	468	583
Miscellaneous	570	647	1,278	1,030	1,175	1,593	1,738	3,700
Total Capital Expenditures	**9,853**	**11,050**	**17,903**	**18,624**	**21,823**	**26,691**	**29,190**	**44,230**

	1980	1981	1982	1983	1984	1985	1986	1987
Drilling/Exploration	31,789	43,193	44,251	28,193	28,290	26,596	13,240	11,547
Production	6,191	7,984	8,681	5,531	5,590	5,217	2,995	2,515
OCS Lease Bonus	4,205	6,599	3,987	5,749	4,037	1,488	187	148
Subtotal	42,185	57,776	56,919	39,473	37,917	33,301	16,422	14,210
Refining	3,159	5,131	4,710	4,142	2,914	2,992	2,073	2,280
Petrochemicals	2,805	2,792	1,570	1,112	1,215	1,493	1,357	1,368
Marketing	1,276	1,619	1,337	1,614	2,221	2,611	1,256	1,353
Crude & Products Pipelines	1,777	2,052	1,320	2,456	1,689	1,137	435	733
Natural Gas Pipelines	3,642	4,947	6,070	4,707	3,971	2,084	1,309	1,556
Other Transportation	804	895	515	456	386	458	380	361
Miscellaneous	5,022	7,731	7,708	4,567	4,347	3,706	3,258	3,154
Total Capital Expenditures	**60,670**	**82,943**	**80,249**	**58,527**	**54,660**	**47,782**	**26,490**	**25,015**

Data from Oil & Gas Journal Energy Database.
Source: Oil & Gas Journal

Severance and Production Taxes Paid
By State
Thousands of Dollars

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Alabama	1,325	1,491	2,098	2,885	5,426	8,090	9,229	11,529	15,502	17,310
Alaska	8,958	11,412	12,341	10,893	22,095	27,694	25,896	52,946	107,721	251,636
Arkansas	2,690	3,033	3,100	3,196	4,321	6,287	6,689	9,206	9,573	11,261
California	1,246	1,231	1,554	1,407	4,778	4,963	5,326	6,841	8,338	9,103
Colorado	1,019	524	524	795	4,000	18,000	5,747	6,033	6,376	7,089
Florida	248	571	2,250	10,240	20,543	20,214	26,371	26,438	42,768	49,306
Indiana	322	239	221	203	453	495	509	723	686	1,159
Kansas	605	664	687	711	704	700	39,870	50,178	55,625	61,525
Kentucky	546	574	521	477	759	349	418	408	395	404
Louisiana	243,799	249,247	236,485	259,455	380,767	539,572	507,140	485,339	466,346	458,009
Maryland	NA	NA	3	4	6	6	5	3	4	6
Michigan	959	915	929	1,076	4,502	6,104	11,886	9,829	12,416	15,454
Mississippi	13,199	13,484	13,143	13,666	22,719	20,914	23,233	24,501	27,756	34,974
Montana	3,231	2,933	2,668	2,692	4,256	6,583	7,009	7,412	7,731	10,550
Nebraska	868	641	543	518	936	983	1,113	1,241	1,318	2,018
Nevada	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
New Mexico	12,696	12,932	13,536	15,595	74,103	74,694	103,860	132,517	151,820	185,349
North Dakota	3,198	3,156	3,306	3,140	4,358	6,880	8,617	9,604	11,100	15,094
Ohio	NA	NA	176	1,042	1,063	1,068	1,063	1,146	1,246	1,431
Oklahoma	50,539	51,280	73,342	71,457	97,760	128,113	153,043	193,614	233,100	283,791
Oregon	NA	NA	NA	NA	NA	NA	0	0	0	0
South Dakota	NA	NA	NA	NA	NA	68	58	68	71	456
Tennessee	NA	NA	NA	20	9	25	25	28	32	116
Texas	268,978	303,633	307,368	334,797	520,474	664,333	795,903	902,801	955,051	1,026,169
Utah	1,264	1,297	1,432	1,530	5,448	5,428	6,528	6,441	6,643	6,978
West Virginia	4,282	4,487	3,986	NA	4,026	3,840	5,068	7,951	9,722	12,002
Wyoming	4,268	4,877	5,075	16,130	35,110	38,336	37,959	41,457	48,179	53,392
Total U.S.	624,240	668,631	685,288	752,029	1,218,616	1,583,739	1,782,565	1,988,254	2,179,519	2,514,582

Severance and Production Taxes Paid
By State
Thousands of Dollars

	1980	1981	1982	1983	1984	1985
Alabama	30,019	55,757	58,036	72,486	114,302	84,215
Alaska	830,520	1,170,090	1,581,116	1,493,700	1,393,100	1,358,344
Arkansas	17,858	27,047	24,602	22,812	21,329	20,438
California	9,025	10,249	11,840	14,196	17,018	15,1[illegible]6
Colorado	9,535	18,010	35,867	23,251	20,598	18,480
Florida	57,317	95,240	79,387	50,835	28,837	21,629
Indiana	1,756	1,835	1,764	1,578	1,546	1,398
Kansas	95,921	104,913	118,304	182,119	243,011	241,700
Kentucky	876	12,544	13,737	14,283	13,461	23,735
Louisiana	513,151	803,147	971,677	859,930	803,183	731,760
Maryland	4	3	2	1	3	1
Michigan	48,936	85,554	87,867	83,188	82,556	81,704
Mississippi	69,011	108,145	113,669	99,159	96,888	82,382
Montana	16,968	29,783	50,075	44,237	56,696	44,200
Nebraska	3,655	4,776	5,969	4,325	5,128	4,455
Nevada	NA	4	3	25	98	152
New Mexico	287,152	369,331	348,437	347,548	381,537	365,029
North Dakota	53,593	91,210	126,138	166,700	160,436	136,200
Ohio	1,579	1,731	1,333	1,856	4,396	5,752
Oklahoma	437,306	601,846	744,629	778,169	709,917	709,364
Oregon	0	0	427	416	318	429
South Dakota	764	1,270	1,707	1,707	1,557	1,824
Tennessee	378	530	931	1,398	1,201	980
Texas	1,527,867	2,204,602	2,373,846	2,251,314	2,215,647	2,163,018
Utah	10,584	16,041	22,296	26,021	38,443	45,427
West Virginia	21,852	28,591	37,609	36,590	44,125	50,777
Wyoming	67,302	260,698	270,372	255,798	270,180	244,316
Total U.S.	**4,112,929**	**6,102,947**	**7,081,640**	**6,833,642**	**6,725,511**	**6,452,855**

Data from Oil & Gas Journal Energy Database.
Source: Independent Petroleum Association of America

Value of OPEC Petroleum Exports
By Country
Millions of Dollars

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Algeria	394	493	508	532	589	631	681	614	1,028	1,522	4,267
Ecuador	1	2	1	1	1	1	1	1	60	282	693
Gabon	13	13	14	32	38	44	45	64	74	169	654
Indonesia	267	272	203	240	298	383	446	565	913	1,609	5,211
Iran	1,109	1,138	1,149	1,748	1,688	1,857	2,358	3,494	3,636	5,617	20,904
Iraq	634	660	698	610	755	761	784	1,073	1,022	1,834	6,506
Kuwait	1,146	753	808	803	860	910	1,596	2,143	2,370	3,520	10,394
Libya	620	796	995	1,178	1,871	2,167	2,366	2,878	2,472	3,452	7,126
Nigeria	81	191	258	203	104	367	713	1,337	1,788	2,878	8,513
Qatar	151	163	180	202	211	223	228	302	382	601	1,979
Saudi Arabia	1,089	1,073	1,298	1,384	2,020	2,107	2,418	3,803	5,477	8,956	35,476
United Arab Emirates	84	83	247	258	342	412	485	801	1,035	1,740	6,306
Venezuela	2,305	2,280	2,190	2,307	2,330	2,279	2,371	2,882	2,857	4,329	10,548
Total OPEC	7,894	7,916	8,549	9,498	11,107	12,142	14,492	19,957	23,114	36,509	118,577

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Algeria	4,295	4,791	5,562	5,856	8,746	12,647	12,985	10,770	9,467	9,189	8,178
Ecuador	516	565	484	523	1,032	1,394	1,560	1,184	1,502	1,621	1,726
Gabon	803	824	852	862	1,140	1,745	1,573	1,603	1,419	1,419	1,350
Indonesia	5,311	6,004	7,298	7,439	8,871	12,850	14,390	14,861	13,478	12,097	8,557
Iran	19,634	22,923	23,599	21,684	19,186	13,286	12,053	19,233	19,924	12,945	12,881
Iraq	8,176	9,114	9,505	10,850	21,289	26,136	10,388	10,095	9,650	11,242	12,459
Kuwait	8,424	8,953	8,778	9,422	16,770	17,678	13,790	8,827	9,948	10,391	9,690
Libya	6,036	8,298	9,748	9,296	14,912	20,452	15,003	13,943	11,387	11,131	10,924
Nigeria	7,522	9,889	10,971	8,927	16,070	24,932	17,291	11,884	9,941	11,533	12,185
Qatar	1,757	2,137	1,987	2,295	3,610	5,409	5,338	4,095	3,058	4,225	3,225
Saudi Arabia	29,473	38,157	43,308	40,332	62,855	108,174	118,998	78,119	44,851	35,669	27,500
United Arab Emirates	6,807	8,384	9,258	8,661	12,862	19,390	18,761	15,965	13,016	12,412	12,492
Venezuela	8,324	8,763	9,110	8,740	13,633	18,248	19,039	15,625	13,839	12,145	10,347
Total OPEC	107,078	128,802	140,460	134,887	200,976	282,341	261,169	206,204	161,480	146,019	131,514

Data from Oil & Gas Journal Energy Database
Source ' International Monetary Fund

Offshore

The offshore sector of the oil and gas industry is one of great interest to industry analysts. The offshore areas are considered to have the greatest potential for the future. Although development is considerably more costly and more difficult, the vast potential reserves of oil and gas make the offshore areas very attractive.

Offshore production moved up steadily in the 1970's while oil prices were escalating. The sharp increase in prices provided the improvement in economics that was required to support the development of the more costly offshore prospects.

Worldwide offshore production increased from 7.5 million b/d in 1970 to 15.2 million b/d in 1984 -- an increase of 102.7%. In 1970 offshore production represented approximately 16.6% of total worldwide output. By 1984, offshore production had moved up to 28.1% of the total. A substantial portion of the increase was due to the development of the vast reserves in the North Sea. North Sea development started in the early 1970's and has increased steadily. By 1987, North Sea production had grown to close to 3.7 million b/d.

U.S. offshore production of crude oil has actually fallen somewhat over this period. U.S. offshore output peaked in 1971 at 1.7 million b/d. It fell steadily to a recent low of 1.04 million b/d in 1981. Output rose between 1982 and 1985 when it reached 1.28 million b/d. Offshore production fell slightly during 1986 to 1.25 million b/d.

U.S. offshore production of natural gas did increase substantially in the 1970's. Output increased from 3.29 tcf in 1970 to 5.44 tcf in 1979. Since then, production has fluctuated -- 5.55 tcf in 1981, 4.59 tcf in 1983, 5.0 tcf in 1984 and 4.35 tcf in 1986. Offshore production was 15% of the U.S. total in 1970 and reached 26.6% by 1979. In recent years, with the U.S. gas deliverability surplus there has been an incentive for companies to produce from their prolific offshore wells to recover their investment while shutting-in onshore production. The cost of offshore development is substantial and the recent downward movement in prices may have an impact on the pace of future offshore development.

This chapter of the Energy Statistics Sourcebook contains detailed data on offshore production and development activity. Reserves in the Gulf of Mexico and North Sea production are highlighted. In this chapter are the statistics required to get a feel for the development trends in the offshore sector of the industry.

Offshore

Active Rigs Offshore, Total U.S., Monthly, 358
Offshore Wells Drilled, As Completed, By State, Annual, 359
Production of Crude Oil & Natural Gas, Offshore vs. Onshore, Total U.S., Annual, 360
Offshore Production of Crude Oil, By State, Annual, 361
Offshore Production of Natural Gas, By State, Annual, 362
Federal Offshore Leasing Activity, Total U.S., Annual, 363
Crude Oil Spills, Federal Waters, Annual, 364
Blowouts & Spillage, Federal Offshore Oil Wells, Annual, 365
Platform Installations & Removals, Federal Offshore, Annual, 366
Disbursement of Mineral Revenues from Federal Offshore, Total U.S., Annual, 367
Gulf of Mexico Reserves & Reserve Additions, Crude Oil & Natural Gas, Annual, 369
Crude Oil & Natural Gas Production, Offshore vs. Onshore, Worldwide, Annual, 370
Offshore Crude Oil Production, By Country, Annual, 372
North Sea Crude Oil Production, Monthly, 274
Offshore Natural Gas Production, By Country, Annual, 375
Offshore Wells Drilled, By Country, Annual, 376

Active Rigs Offshore
Total U.S.

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1970	102.3	101.8	100.8	92.9	86.0	86.4	83.8	85.2	84.6	87.8	92.0	88.3	**91.0**
1971	84.8	88.3	77.4	75.8	80.0	78.3	79.8	77.0	82.3	75.6	75.4	79.8	**79.5**
1972	83.8	86.1	90.3	90.1	80.8	82.7	75.6	78.5	87.3	85.0	83.0	89.8	**84.4**
1973	92.4	82.0	75.8	72.4	65.4	68.9	71.6	73.1	71.6	72.8	73.8	70.6	**74.2**
1974	89.0	91.3	95.8	101.0	93.8	90.0	92.8	90.5	88.8	89.3	95.8	99.0	**93.1**
1975	90.0	89.3	99.2	98.6	98.3	104.4	107.5	111.3	111.8	120.8	113.2	116.4	**105.1**
1976	122.0	124.8	131.2	124.3	93.0	119.1	131.4	128.2	126.3	128.4	137.2	145.0	**125.9**
1977	145.6	164.8	160.5	159.6	166.4	166.2	169.4	176.6	177.4	167.8	166.8	167.5	**165.7**
1978	172.4	181.3	180.0	182.2	182.6	184.2	185.4	196.6	193.6	189.8	187.0	187.5	**185.2**
1979	207.8	201.0	203.1	207.2	197.9	204.8	205.2	207.4	215.0	210.8	204.9	216.0	**206.8**
1980	218.8	216.2	219.4	222.1	229.0	235.4	234.8	234.9	230.6	231.5	247.3	250.6	**230.9**
1981	245.1	234.1	251.8	256.4	249.4	246.4	262.4	263.8	265.5	263.9	269.8	283.1	**257.6**
1982	279.9	269.1	262.4	251.3	251.4	248.2	242.2	234.6	227.7	229.1	214.4	213.9	**243.7**
1983	217.8	215.9	209.9	213.1	209.2	201.4	178.3	180.8	174.8	176.0	202.8	209.3	**199.1**
1984	214.8	201.8	196.7	203.0	202.0	205.0	206.0	216.0	214.0	223.0	232.0	242.0	**213.0**
1985	242.0	233.0	222.0	211.0	199.0	203.0	195.0	196.0	196.0	195.0	186.0	190.0	**205.7**
1986	174.0	163.0	133.0	112.0	94.0	74.0	64.0	65.0	74.0	79.0	79.0	89.0	**100.0**

Data from Oil & Gas Journal Energy Database
Source: Baker Hughes Inc.

Value of U.S. Petroleum Imports
Current and Constant Dollars

	Total All Merchandise Imports	Petroleum and Products Imports	Petroleum Percent of Total Imports	Total All Merchandise Imports	Petroleum and Products Imports	Petroleum Percent of Total Imports
	---Billions of Dollars----			-Billions of 1982 Dollars-		
1967	27.75	2.10	7.6	112.95	28.85	25.5
1968	33.95	2.38	7.0	135.75	33.23	24.5
1969	36.80	2.65	7.2	144.65	37.05	25.6
1970	40.85	2.95	7.2	150.85	40.08	26.6
1971	46.53	3.65	7.8	166.20	45.78	27.5
1972	56.85	4.65	8.2	190.73	55.95	29.3
1973	71.85	8.40	11.7	218.23	79.38	36.4
1974	104.53	26.60	25.4	211.78	76.48	36.1
1975	99.00	27.03	27.3	187.90	75.20	40.0
1976	124.30	34.58	27.8	229.35	90.68	39.5
1977	151.85	44.98	29.6	259.45	109.10	42.1
1978	176.48	42.30	24.0	274.08	102.45	37.4
1979	211.95	60.48	28.5	277.85	103.80	37.4
1980	247.45	79.28	32.0	253.60	82.78	32.6
1981	266.45	77.78	29.2	258.65	72.33	28.0
1982	249.48	61.25	24.6	249.48	61.28	24.5
1983	271.33	55.00	20.3	282.25	60.58	21.5
1984	334.43	57.35	17.1	350.00	63.70	18.2
1985	341.70	50.53	14.8	368.73	59.80	16.2
1986	368.38	33.90	9.2	418.48	74.68	17.8

Source: Bureau of Commerce

U.S. Offshore Wells Drilled
By Area
As Completed*

	1970	1971	1972	1973	1974	1975	1976	1977	1978
Gulf of Mexico	1,010	899	1,066	840	800	879	904	1,130	1,048
Alabama Offshore	0	0	0	0	0	0	0	0	0
Louisiana Offshore	953	861	1,008	760	620	679	572	785	723
Texas Offshore	57	38	58	80	166	166	304	311	307
Federal Waters	0	0	0	0	14	34	28	34	18
Pacific Coast	144	76	80	65	79	66	28	63	85
California Offshore	144	76	80	65	79	66	28	63	85
Federal Waters	0	0	0	0	0	0	0	0	0
Alaska	19	1	7	10	11	15	19	30	15
Alaska Offshore	19	1	7	10	11	14	18	19	11
Federal Waters	0	0	0	0	0	1	1	11	4
Atlantic Coast Fed.	0	0	0	0	0	0	0	1	7
Total Offshore	**1,173**	**976**	**1,153**	**915**	**890**	**960**	**951**	**1,224**	**1,155**
% Total U.S. Wells	4.0	3.5	3.9	3.2	2.6	2.4	2.2	2.6	2.2

	1979	1980	1981	1982	1983	1984	1985	1986
Gulf of Mexico	963	916	953	880	1,020	1,174	972	545
Alabama Offshore	0	0	0	3	2	1	5	4
Louisiana Offshore	723	644	680	589	801	901	631	379
Texas Offshore	210	245	239	240	162	189	214	74
Federal Waters	30	27	34	48	55	83	122	88
Pacific Coast	123	137	193	235	125	144	94	40
California Offshore	123	137	193	231	103	132	90	37
Federal Waters	0	0	0	4	22	12	4	3
Alaska	11	10	5	12	6	4	5	11
Alaska Offshore	8	6	5	11	6	2	1	8
Federal Waters	3	4	0	1	0	2	4	3
Atlantic Coast Fed.	18	4	5	7	1	3	0	0
Total Offshore	**1,115**	**1,067**	**1,156**	**1,134**	**1,152**	**1,325**	**1,071**	**596**
% Total U.S. Wells	2.1	1.5	1.3	1.3	1.5	1.6	[illegible].5	1.7

* Subject to revision as additional wells are reported which were completed in recent years.

Data from Oil & Gas Journal Energy Database.
Source: American Petroleum Institute

U.S. Production of Crude Oil and Natural Gas
Onshore and Offshore

	Crude Oil Production			Natural Gas Production		
	Offshore	Onshore	Total	Offshore	Onshore	Total
	000 bbl.			Mmcf		
1954	48,825	2,266,387	2,314,988	70,611	8,742,546	8,813,157
1955	60,543	2,425,289	2,484,428	109,132	9,405,351	9,514,483
1956	75,131	2,543,889	2,617,283	124,670	10,081,920	10,206,590
1957	85,320	2,533,249	2,616,901	152,403	10,680,260	10,832,663
1958	87,940	2,362,773	2,448,987	223,607	11,030,300	11,253,907
1959	102,704	2,474,511	2,574,590	314,050	12,046,120	12,360,170
1960	122,274	2,458,170	2,574,933	408,166	12,771,040	13,179,206
1961	138,486	2,488,382	2,621,758	451,027	13,254,030	13,705,057
1962	172,210	2,513,972	2,676,189	629,983	13,876,620	14,506,603
1963	192,765	2,564,621	2,752,723	759,959	14,666,560	15,426,519
1964	217,386	2,572,003	2,786,822	839,842	15,462,140	16,301,982
1965	241,578	2,605,862	2,848,514	931,038	16,039,750	16,970,788
1966	301,726	2,727,493	3,027,763	1,359,958	17,206,630	18,566,588
1967	367,922	2,847,565	3,215,742	1,699,198	18,171,320	19,870,518
1968	471,984	2,857,851	3,329,042	2,319,543	19,322,400	21,641,943
1969	530,282	2,845,919	3,371,751	2,745,429	20,698,240	23,443,669
1970	583,465	2,941,736	3,517,450	3,287,388	21,920,640	25,208,028
1971	625,697	2,839,160	3,453,914	3,590,850	22,493,010	26,083,860
1972	621,315	2,847,796	3,455,368	3,883,885	22,531,700	26,415,585
1973	583,365	2,781,905	3,360,903	3,976,454	22,647,550	26,624,004
1974	535,698	2,658,949	3,202,585	4,246,505	21,600,520	25,847,025
1975	496,537	2,559,513	3,056,779	4,164,727	20,108,660	24,273,387
1976	467,824	2,513,710	2,976,180	4,315,396	19,952,440	24,267,836
1977	439,173	2,555,589	2,985,360	4,496,927	20,025,460	24,522,387
1978	416,325	2,763,471	3,178,216	5,134,039	19,974,030	25,108,069
1979	398,595	2,731,902	3,121,310	5,444,904	20,471,260	25,916,164
1980	379,649	2,767,840	3,146,365	5,382,236	20,378,790	25,761,026
1981	385,421	2,751,214	3,128,624	5,546,462	20,177,700	25,724,162
1982	412,283	2,751,565	3,156,715	5,368,227	18,462,000	23,830,227
1983	434,547	2,711,829	3,170,999	4,587,812	12,170,095	16,757,907
1984	458,332	2,791,364	3,249,696	5,045,819	13,183,819	18,229,638
1985	467,481	2,807,072	3,274,553	4,421,357	12,776,642	17,197,999
1986	457,624	2,710,628	3,168,252	4,349,705	12,459,048	16,808,753

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration, Minerals Management Service, Oil & Gas Journal, Offshore Magazine

U.S. Offshore Crude Oil Production
By State
Thousands of barrels

	Alaska	California	Louisiana	Texas	Total U.S.
Pre-1954	0.0	422,385.0	23,556.5	0.0	445,941.5
1954	0.0	32,665.0	16,149.9	10.0	48,824.9
1955	0.0	33,252.0	27,135.0	156.0	60,543.0
1956	0.0	32,348.0	42,643.1	140.3	75,131.4
1957	0.0	30,561.0	54,503.4	255.8	85,320.2
1958	0.0	28,363.0	59,107.1	470.0	87,940.1
1959	0.0	26,787.0	75,417.4	499.3	102,703.7
1960	0.0	28,074.0	93,632.9	567.1	122,274.0
1961	0.0	29,887.0	108,306.8	292.0	138,485.8
1962	0.0	34,613.0	136,793.2	803.5	172,209.7
1963	0.0	38,346.0	153,749.9	668.8	192,764.7
1964	0.0	40,526.0	176,281.8	578.0	217,385.8
1965	31.8	42,772.0	198,217.9	556.7	241,578.4
1966	2,652.7	53,294.0	244,528.9	1,250.2	301,725.8
1967	15,933.0	64,807.0	284,036.0	3,145.9	367,921.9
1968	52,524.6	85,338.9	330,474.3	3,646.7	471,984.5
1969	60,867.0	99,001.8	367,410.0	2,983.6	530,262.4
1970	70,472.0	104,491.9	405,474.7	3,026.6	583,465.2
1971	66,793.3	101,922.6	454,821.7	2,159.1	625,696.7
1972	64,336.6	95,730.7	458,775.2	2,472.8	621,315.3
1973	62,427.3	89,497.9	429,154.5	2,285.4	583,365.1
1974	60,630.2	83,983.6	389,124.1	1,959.9	535,697.8
1975	60,709.2	79,578.7	354,554.9	1,693.9	496,536.7
1976	55,190.9	70,624.6	340,245.2	1,763.1	467,823.8
1977	50,575.7	60,491.5	324,576.3	3,529.3	439,172.8
1978	45,712.5	55,610.5	310,437.0	4,565.2	416,325.2
1979	38,922.7	53,163.7	300,368.9	6,139.6	398,594.9
1980	32,726.5	50,177.7	284,280.0	12,464.6	379,648.8
1981	28,447.1	58,769.7	282,095.4	16,108.4	385,420.6
1982	24,680.9	68,244.8	300,339.1	19,018.0	412,282.8
1983	21,911.9	68,230.1	322,408.0	21,996.7	434,546.7
1984	19,631.0	69,762.6	344,877.3	24,060.8	458,331.7
1985	12,644.2	69,370.3	362,649.7	22,816.6	467,480.8

Data from Oil & Gas Journal Energy Database.
Source: Minerals Management Service

U.S. Offshore Natural Gas Production
By State
Millions of cubic feet

	Alaska	California	Louisiana	Texas	Total U.S.
Pre-1954	0.0	0.0	36,435.1	0.0	36,435.1
1954	0.0	0.0	67,170.8	[illegible],440.0	70,610.8
1955	0.0	0.0	102,252.4	6,880.0	109,132.4
1956	0.0	0.0	117,789.7	6,880.0	124,669.7
1957	0.0	0.0	138,638.4	13,765.0	152,403.4
1958	0.0	0.0	199,527.1	24,080.0	223,607.1
1959	0.0	0.0	289,970.0	24,080.0	314,050.0
1960	0.0	1,113.0	376,092.9	30,960.0	408,165.9
1961	0.0	5,903.0	431,363.5	13,760.0	451,026.5
1962	0.0	10,671.0	578,032.2	41,280.0	629,983.2
1963	0.0	25,769.0	703,230.1	30,960.0	759,959.1
1964	0.0	35,323.0	773,559.0	30,960.0	839,842.0
1965	10.9	40,770.0	862,737.5	27,520.0	931,038.4
1966	[illegible],200.1	46,839.0	1,248,236.7	63,682.3	1,359,958.1
1967	9,046.3	46,732.0	1,482,621.9	160,797.5	1,699,197.7
1968	25,806.8	86,564.7	1,906,482.7	300,689.1	2,319,543.3
1969	43,243.5	83,903.9	2,380,224.9	238,056.4	2,745,428.7
1970	83,139.5	71,121.3	2,868,465.6	264,661.2	3,287,387.6
1971	86,326.3	61,448.1	3,207,475.1	235,600.0	3,590,849.5
1972	76,818.6	44,780.7	3,485,002.9	277,282.5	3,883,884.7
1973	74,655.1	37,882.9	3,612,878.4	251,038.0	3,976,454.4
1974	74,672.5	34,504.7	3,867,751.4	269,576.7	4,246,505.3
1975	76,294.5	27,271.7	3,840,631.1	220,530.0	4,164,727.3
1976	74,142.8	22,459.1	4,012,800.8	205,993.4	4,315,396.1
1977	77,539.5	17,527.1	4,133,609.9	268,250.0	4,496,926.5
1978	74,910.5	17,668.4	4,639,459.8	402,000.0	5,134,038.7
1979	73,792.4	16,417.1	4,635,486.9	719,207.9	5,444,904.3
1980	64,543.2	16,181.8	4,422,491.6	879,019.7	5,382,236.3
1981	72,307.3	26,237.0	4,480,934.4	966,983.0	5,546,461.7
1982	68,372.5	31,758.1	4,163,089.4	1,104,987.2	5,368,207.2
1983	68,836.8	29,877.6	3,490,146.4	998,951.5	4,587,812.3
1984	68,688.2	41,643.5	3,892,102.8	1,043,384.2	5,045,818.7
1985	62,796.0	68,647.3	3,346,856.2	943,057.2	4,421,356.7

Data from Oil & Gas Journal Energy Database.
Source: Minerals Management Service

U.S. Federal Offshore Leasing Activity

	No. of Sales	-----Tracts----- Offered	Leased	---------Acres--------- Offered	Leased	Bonuses Paid for Leases (Dollars)
1954	3	345	114	1,384,238	486,870	140,969,005
1955	1	210	121	674,095	402,567	108,528,726
1959	2	118	42	539,813	171,300	89,746,992
1960	2	395	148	1,632,339	707,026	246,985,034
1962	3	830	420	3,718,115	1,929,177	489,481,061
1963	1	129	57	669,777	312,945	12,807,337
1964	2	224	124	1,124,102	613,524	95,874,327
1965	1	658	50	947,520	72,000	33,740,309
1966	3	71	42	265,886	141,768	209,199,893
1967	2	214	159	988,484	746,951	510,109,742
1968	3	305	197	1,315,984	934,164	1,346,487,097
1969	3	185	40	355,758	114,282	111,660,685
1970	2	161	138	666,845	598,540	945,064,773
1971	1	18	11	55,872	37,222	96,304,523
1972	2	210	178	970,711	826,195	2,251,347,556
1973	2	276	187	1,514,940	1,032,570	3,082,462,611
1974	4	1,006	356	5,006,881	1,762,158	5,022,860,815
1975	4	1,374	321	7,247,327	1,679,877	1,088,133,152
1976	4	536	246	2,827,342	1,277,937	2,242,898,467
1977	2	358	211	1,843,116	1,100,734	1,568,564,745
1978	4	586	249	3,140,696	1,297,274	1,767,042,064
1979	6	666	351	3,412,249	1,767,443	5,078,861,693
1980	3	483	218	2,563,452	1,134,238	4,204,640,257
1981	7	1,398	430	7,679,740	2,265,469	6,611,899,162
1982	5	1,410	357	7,637,122	1,886,359	3,987,490,009
1983	7	21,689	1,251	120,054,037	6,587,879	5,749,016,369
1984	6	27,984	1,400	154,383,680	7,494,803	4,037,050,308
1985	3	15,754	642	87,028,709	3,368,043	1,488,026,714

Note: In addition to oil and gas sales data is included for 3 sulphur sales (1954, 1965, 1969) and 2 salt sales (1960, 1967).

Data from Oil & Gas Journal Energy Database.
Source: Minerals Management Service

Crude Oil Spills in Federal Waters

	Gulf of Mexico			Pacific Coast			
	No. of Spills 1-50 bbl.	More than 50 bbl.	Total Barrels Spilled	No. of Spills 1-50 bbl.	More than 50 bbl.	Total Barrels Spilled	Total Seepage* in bbl.
1970	NA	7	83,823	NA	NA	NA	NA
1971	NA	10	1,110	NA	NA	NA	NA
1972	NA	2	181	NA	0	0	10,325
1973	NA	3	21,935	NA	0	0	1,825
1974	NA	8	23,973	NA	0	0	1,460
1975	NA	0	0	NA	0	0	1,460
1976	57	2	4,740	0	0	0	1,458
1977	58	3	919	0	0	0	1,458
1978	59	3	1,382	0	0	0	1,456
1979	92	2	536	0	0	0	1,456
1980	40	2	1,775	1	0	2	1,456
1981	46	4	5,503	6	0	32	1,456
1982	42	0	124	3	0	8	1,456
1983	57	2	520	3	0	4	912
1984	46	1	224	5	0	40	730
1985	36	2	581	3	0	9	365

* Represents seepage in the Santa Barbara Channel. 1972 figure is total for 1970 through 1972.

Data from Oil & Gas Journal Energy Database.
Source: Minerals Management Service

Blowouts and Spillage from Federal Offshore Oil Wells

	No. of Well Starts	---Drilling Blowouts--- Exploration No.	Bbl.	Development No.	Bbl.	-------Non-Drilling Blowouts------- Production No.	Bbl.	Workover No.	Bbl.	Completion No.	Bbl.	Total No. of Blowouts	Spills in Bbl.	Production in Mill bbl.
1971	864	2	0	0	0	2	450	1	0	0	0	5	450	418.5
1972	856	2	0	1	0	0	0	0	0	0	0	3	0	411.9
1973	829	2	0	1	0	0	0	0	0	0	0	3	0	394.7
1974	801	0	0	1	0	2	75	1	200	0	0	4	275	360.6
1975	841	4	0	0	0	0	0	1	0	1	0	6	0	330.2
1976	1,086	1	0	4	0	1	0	0	0	0	0	6	0	316.9
1977	1,220	2	0	2	0	0	0	3	0	2	0	9	0	303.9
1978	1,139	4	0	5	0	0	0	2	0	1	0	12	0	292.3
1979	1,109	3	0	2	0	0	0	0	0	0	0	5	0	285.6
1980	1,079	3	0	1	0	1	1	2	0	1	0	8	1	277.4
1981	1,109	2	0	1	0	0	0	2	64	5	0	10	64	289.8
1982	1,159	0	0	4	0	0	0	3	0	1	0	8	0	321.2
1983	1,066	3	0	4	0	0	0	1	0	1	0	9	0	348.3
1984	1,136	3	0	2	10	0	0	1	0	0	0	6	10	370.2
1985	1,040	2	0	0	0	1	40	1	0	0	0	4	40	389.3

Data from Oil & Gas Journal Energy Database
Source: Minerals Management Service

Platform Installations and Removals
U.S. Federal Offshore

	Installed	Removed	Installed	Removed
1953	39	0	0	0
1954	20	0	0	0
1955	30	0	0	0
1956	42	0	0	0
1957	51	0	0	0
1958	81	0	0	0
1959	77	0	0	0
1960	111	0	0	0
1961	114	0	0	0
1962	121	0	0	0
1963	88	0	0	0
1964	128	0	0	0
1965	126	0	0	0
1966	119	0	0	0
1967	132	0	1	0
1968	104	0	3	0
1969	95	0	1	0
1970	124	0	0	0
1971	106	0	0	0
1972	121	0	0	0
1973	97	4	0	0
1974	51	5	0	0
1975	102	38	0	0
1976	112	32	1	0
1977	117	16	1	0
1978	162	28	0	0
1979	163	40	2	0
1980	171	38	2	0
1981	169	25	2	0
1982	192	12	0	0
1983	171	45	1	0
1984	187	88	1	0
1985	229	71	3	0

Data from Oil & Gas Journal Energy Database.
Source: Minerals Management Service

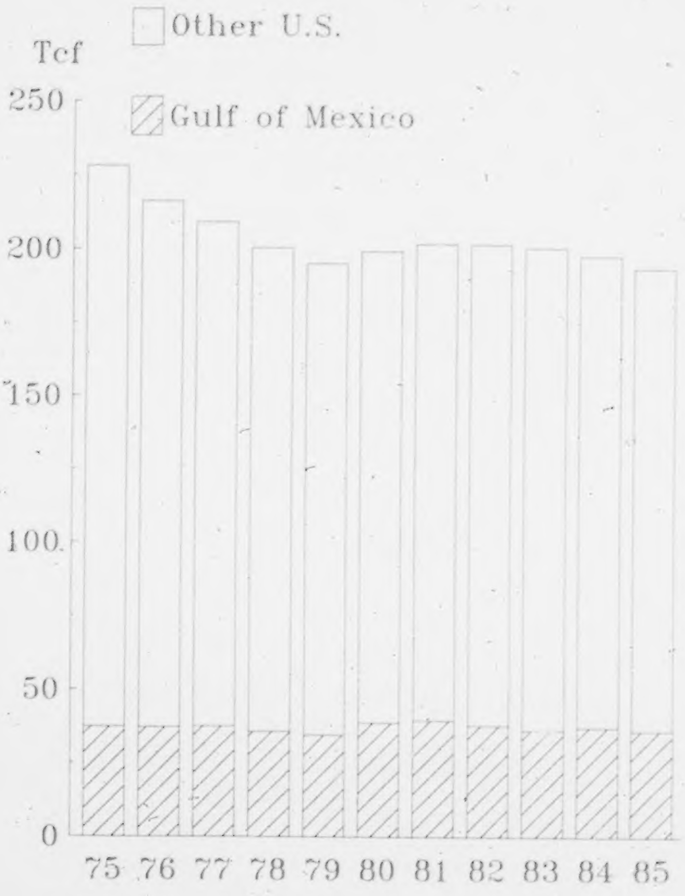
Disbursement of Mineral Revenues
from Federal Offshore Leases
By Fiscal Year

	To U.S. Treasury, General Fund		To Special Funds		
	Bonus & Rental Payments	Royalty Payments	Land & Water Conservation	Historic Preservation	Total Disbursement
1971	689,281,286	151,175,994	210,092,091	0	1,050,549,371
1972	28,029,742	27,645,946	223,677,068	0	279,352,756
1973	2,928,891,919	802,701,972	223,983,126	0	3,955,577,017
1974	6,096,405,041	408,101,161	243,887,918	0	6,748,394,120
1975	1,688,826,143	491,813,968	247,325,029	0	2,427,965,140
1976	1,385,179,272	1,000,627,187	276,641,316	0	2,662,447,775
TQ*	1,090,478,816	178,741,689	41,898,324	0	1,311,118,829
1977	1,312,356,698	804,649,966	232,339,865	24,000,000	2,373,346,529
1978	319,390,790	1,005,726,401	833,428,546	100,000,000	2,258,545,737
1979	1,088,416,655	1,337,744,641	741,214,437	100,000,000	3,267,375,733
1980	1,360,713,229	1,839,574,175	900,583,342	0	4,100,870,746
1981	6,684,689,957	2,286,169,198	867,123,128	300,000,000	10,137,982,283
1982	1,744,453,723	3,529,206,734	825,959,504	150,000,000	6,249,619,961
1983	6,579,073,584	2,947,728,610	814,693,040	150,000,000	10,491,495,234
1984	2,604,347,777	3,149,777,867	789,421,288	150,000,000	6,693,546,932
1985	1,036,225,747	3,588,937,243	766,715,507	150,000,000	5,541,878,497

* A transitional quarter was made necessary when the Federal Government changed its fiscal yearend to September.

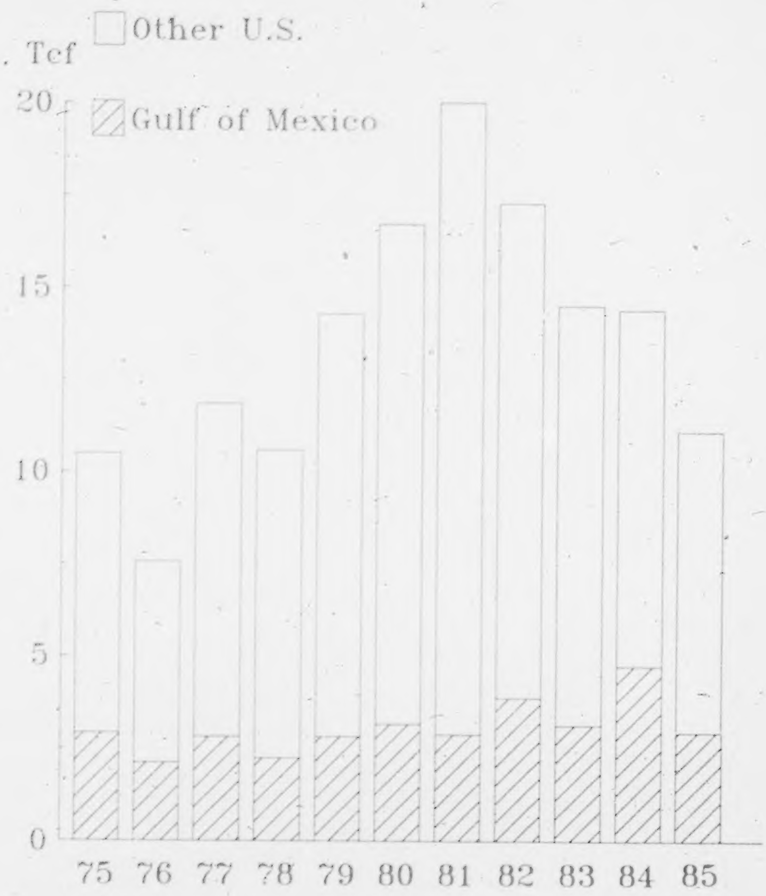
Data from Oil & Gas Journal Energy Database.
Source: Minerals Management Service

U.S. Natural Gas Reserves



Source: API, AGA, EIA

Natural Gas Reserve Additions



Source: API, AGA, EIA

Gulf of Mexico Reserves and Reserve Additions
Crude Oil and Natural Gas

	Crude Oil (000 bbl)					Natural Gas (Mmcf)				
	Reserves Dec. 31	Extensions	New Field Discoveries	New Reservoir Discoveries Old Fields	Total Reserve Additions	Reserves Dec. 31	Extensions	New Field Discoveries	New Reservoir Discoveries Old Fields	Total Reserve Additions
1960	1,619,228	NA	NA	NA	NA	NA	NA	NA	NA	NA
1961	1,759,091	NA	NA	NA	NA	NA	NA	NA	NA	NA
1962	1,786,736	NA	NA	NA	NA	NA	NA	NA	NA	NA
1963	1,804,644	NA	NA	NA	NA	NA	NA	NA	NA	NA
1964	1,961,575	NA	NA	NA	NA	NA	NA	NA	NA	NA
1965	2,001,189	NA	NA	NA	NA	NA	NA	NA	NA	NA
1966	2,282,618	NA	NA	NA	NA	30,340,112	NA	NA	NA	NA
1967	2,379,436	NA	NA	NA	NA	34,182,892	NA	NA	NA	NA
1968	2,536,471	NA	NA	NA	NA	35,851,528	NA	NA	NA	NA
1969	2,768,557	NA	NA	NA	NA	35,306,704	NA	NA	NA	NA
1970	2,924,095	216,071	122,375	27,478	365,924	37,781,044	NA	NA	NA	NA
1971	2,748,310	81,114	13,600	9,242	103,956	38,397,672	NA	NA	NA	NA
1972	2,565,862	100,526	36,500	65,836	202,862	38,785,664	1,037,769	552,104	901,985	2,491,858
1973	2,347,525	68,337	31,780	20,145	120,262	36,785,308	765,931	736,676	547,548	2,050,155
1974	2,212,008	34,664	73,528	37,225	145,417	35,347,840	765,931	736,676	547,548	2,050,155
1975	2,099,786	55,469	113,726	85,629	254,824	37,332,640	1,438,926	1,131,935	334,912	2,905,773
1976	1,968,253	64,133	10,170	29,379	103,682	37,103,084	696,738	426,319	981,206	2,104,263
1977	1,874,498	37,579	40,483	60,440	138,502	37,555,524	940,356	976,804	891,150	2,808,310
1978	1,749,464	37,094	20,739	46,060	103,893	35,635,004	992,060	536,727	705,489	2,234,276
1979*	1,707,584	45,554	17,335	26,128	89,017	34,409,740	921,530	1,292,804	595,970	2,810,304
1980*	1,791,000	32,000	18,000	86,000	136,000	38,733,000	1,310,000	690,000	1,163,000	3,163,000
1981	2,006,000	82,000	35,000	99,000	216,000	39,451,000	943,000	1,015,000	913,000	2,871,000
1982	2,018,000	83,000	27,000	65,000	175,000	37,761,000	1,096,000	1,166,000	1,606,000	3,868,000
1983	2,038,000	127,000	33,000	88,000	248,000	36,042,000	1,064,000	893,000	1,179,000	3,136,000
1984	2,022,000	133,000	20,000	93,000	246,000	37,026,000	1,862,000	1,913,000	967,000	4,742,000
1985	2,000,000	68,000	25,000	66,000	159,000	35,885,000	1,268,000	368,000	1,317,000	2,953,000

* Data from 1960-1979 is from API/AGA. Data from 1980-1984 is from EIA. Some discontinuity exists.

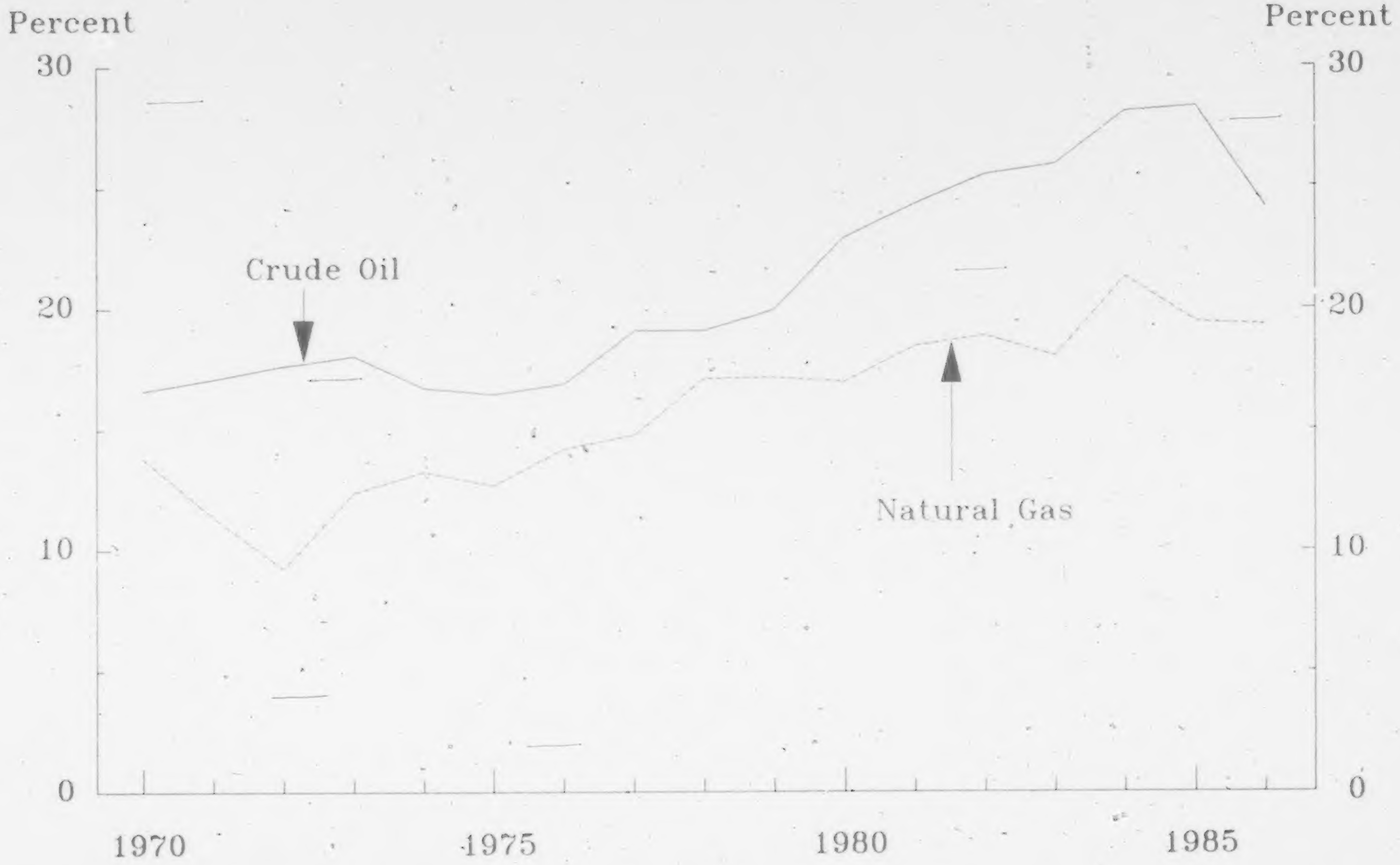
Data from Oil & Gas Journal Energy Database.
Source: American Petroleum Institute, American Gas Association, Energy Information Administration

Worldwide Crude Oil and Natural Gas Production
Onshore and Offshore

	Crude Oil Production			Natural Gas Production		
	Offshore	Onshore	Total	Offshore	Onshore	Total
	000 bbl.			Mmcf		
1969	2,261,175	12,961,335	15,222,510	NA	NA	NA
1970	2,749,290	13,815,651	16,564,941	5,261,019	32,832,941	38,093,960
1971	3,001,965	14,545,994	17,547,959	4,682,485	36,505,915	41,188,400
1972	3,247,186	15,171,225	18,418,411	4,017,978	39,506,582	43,524,560
1973	3,638,357	16,524,791	20,163,148	5,709,421	40,434,179	46,143,600
1974	3,397,676	16,917,568	20,315,243	6,243,850	40,934,670	47,178,520
1975	3,186,158	16,169,792	19,355,950	6,021,223	41,496,548	47,517,770
1976	3,522,104	17,325,492	20,847,596	6,848,970	41,456,711	48,305,680
1977	4,161,767	17,639,684	21,801,450	7,392,163	42,707,928	50,100,090
1978	4,196,369	17,794,444	21,990,812	9,349,110	45,288,390	54,637,500
1979	4,569,070	18,334,388	22,903,458	9,803,718	47,401,883	57,205,600
1980	4,996,668	16,845,334	21,842,002	9,963,259	48,775,441	58,738,700
1981	4,977,396	15,472,934	20,450,330	10,661,176	47,119,825	57,781,000
1982	4,949,838	14,440,897	19,390,735	10,704,209	46,032,691	56,736,900
1983	5,009,114	14,275,223	19,284,337	10,048,195	45,695,306	55,743,500
1984	5,565,958	14,207,997	19,773,955	12,670,902	46,798,798	59,469,700
1985	5,538,547	13,998,407	19,536,954	12,207,644	50,639,056	62,846,700
1986	4,919,762	15,428,368	20,348,130	12,348,642	51,766,658	64,115,300

Data from Oil & Gas Journal Energy Database.
Source: Offshore Magazine, Oil & Gas Journal

World Production of Crude and Natural Gas
Percentage from Offshore



Source: Offshore Mag., OGJ

Offshore Crude Oil Production
By Country
Thousands of barrels per day

	1972	1973	1974	1975	1976	1977	1978	1979	1980
Abu Dhabi	345.2	454.4	513.0	462.7	560.0	627.0	590.7	596.8	1,322.0
Angola-Cabinda	137.4	144.2	140.4	143.2	33.6	130.5	94.6	160.0	97.0
Australia	303.0	348.2	217.3	412.5	348.0	430.4	414.8	401.0	323.2
Brazil	8.2	17.2	20.4	19.0	35.4	28.8	38.9	72.0	73.0
Brunei	218.0	264.2	287.1	141.2	170.2	223.0	191.0	189.6	192.2
Cameroon	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chile	NA	NA	NA	NA	NA	NA	NA	NA	NA
China	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0
Congo	7.9	34.8	46.0	37.3	38.0	25.0	52.4	52.0	27.0
Denmark	NA	2.7	1.9	3.3	8.0	10.2	8.5	12.0	6.6
Dubai	129.5	221.5	132.9	249.3	308.3	317.0	362.0	362.7	345.0
Egypt	157.0	130.8	147.2	165.0	231.1	399.0	396.0	430.0	390.3
Gabon	43.6	57.2	59.6	179.9	165.9	183.2	137.0	196.0	177.9
Ghana	NA	NA	NA	NA	NA	NA	5.0	2.0	2.0
Greece	NA	NA	NA	NA	NA	NA	NA	NA	NA
India	NA	NA	NA	NA	15.0	80.0	61.7	81.4	142.1
Indonesia	69.9	174.2	247.4	246.5	426.0	591.0	545.2	374.7	533.1
Iran	467.8	452.4	455.2	481.2	426.5	507.4	654.5	200.0	150.0
Italy	10.9	12.7	10.2	10.4	10.1	12.0	4.3	4.8	6.3
Ivory Coast	NA	NA	NA	NA	NA	NA	NA	0.0	5.8
Japan	1.2	1.0	1.9	0.9	3.0	3.1	2.5	0.5	1.5
Malaysia	NA	NA	NA	84.5	151.4	178.1	225.0	271.0	280.3
Mexico	38.0	20.8	11.9	45.0	45.4	48.4	40.2	430.0	500.2
Netherlands	NA	NA	NA	NA	NA	NA	NA	0.0	0.0
Neutral Zone	409.8	394.0	333.9	315.1	247.1	165.6	240.0	395.2	403.0
New Zealand	NA	NA	NA	NA	NA	NA	NA	0.0	3.2
Nigeria	409.0	518.4	648.9	431.3	525.1	536.4	384.4	543.5	579.1
Norway	32.3	32.3	35.6	189.6	242.6	279.7	356.5	407.3	628.8
Peru	23.8	31.4	34.4	28.9	31.8	28.6	28.9	29.1	29.9
Philippines	NA	NA	NA	NA	NA	NA	NA	26.0	4.0
Qatar	NA	NA	NA	NA	NA	244.3	260.0	275.7	247.6
Ra's al Kaymah	NA	NA	NA	NA	NA	NA	NA	NA	NA
Saudi Arabia	1,490.7	1,990.4	2,024.6	1,385.9	1,694.8	2,621.4	2,621.4	2,828.0	2,958.0
Sharjah	NA	NA	NA	38.4	37.0	32.6	25.4	12.1	10.0
Spain	NA	20.0	34.1	32.9	33.3	23.0	20.0	22.2	31.3
Thailand	NA	NA	NA	NA	NA	NA	NA	0.0	0.0
Trinidad	236.0	236.0	135.1	174.0	180.1	189.3	175.6	167.4	166.5
Tunisia	NA	NA	NA	43.0	37.0	45.5	45.2	48.5	43.6
United Kingdom	NA	NA	NA	83.0	446.0	760.0	1,070.0	1,571.4	1,650.0
United States	1,702.2	1,398.3	1,467.7	1,360.4	1,281.7	1,203.2	1,140.6	1,092.0	1,040.1
U.S.S.R.	155.0	111.0	231.0	228.0	220.0	205.0	200.0	190.0	200.0
Venezuela	2,500.0	2,700.0	2,071.2	1,737.1	1,677.2	1,249.8	1,083.5	1,050.0	1,095.6
Zaire	NA	NA	NA	NA	20.0	23.4	19.0	20.8	21.5
Total World	8,896.4	9,968.1	9,308.7	8,729.2	9,649.6	11,402.1	11,496.9	12,518.0	13,689.5

Offshore Crude Oil Production
By Country
Thousands of barrels per day

	1981	1982	1983	1984	1985	1986
Abu Dhabi	555.0	443.4	338.5	340.0	281.0	265.0
Angola-Cabinda	134.0	87.7	142.5	175.0	170.0	185.6
Australia	348.1	368.1	341.1	420.0	474.1	384.1
Brazil	91.8	176.9	197.2	313.0	375.4	376.0
Brunei	126.0	121.0	121.6	116.0	98.8	98.7
Cameroon	NA	103.6	93.4	150.0	133.0	125.0
Chile	NA	31.3	29.5	23.0	22.1	11.3
China	2.0	0.0	0.0	2.0	2.5	1.0
Congo	79.0	86.7	94.9	117.5	114.4	115.0
Denmark	15.0	34.0	43.0	46.7	52.4	55.0
Dubai	359.0	364.0	323.0	346.9	322.2	330.6
Egypt	570.0	570.0	508.7	712.1	743.1	589.6
Gabon	113.4	102.5	130.0	130.0	112.8	105.0
Ghana	1.8	1.3	1.2	0.8	2.0	0.3
Greece	NA	20.9	23.0	26.1	26.4	27.2
India	160.0	257.0	342.3	432.0	614.0	621.0
Indonesia	561.0	535.7	438.5	543.3	483.0	391.9
Iran	850.0	NA	NA	NA	610.6	505.0
Italy	6.0	10.0	22.6	22.9	28.2	8.9
Ivory Coast	9.8	9.4	21.3	22.0	22.1	19.5
Japan	0.9	0.9	1.0	4.0	0.8	1.4
Malaysia	250.0	302.2	383.0	439.4	279.5	20.9
Mexico	1,106.0	1,638.6	1,673.8	1,793.4	1,703.0	1,700.0
Netherlands	0.0	0.0	20.8	32.0	23.9	20.7
Neutral Zone	268.0	158.0	216.0	320.0	266.0	266.0
New Zealand	4.5	8.7	6.7	10.1	11.9	14.0
Nigeria	455.0	371.4	306.1	385.7	415.9	289.5
Norway	509.0	534.3	615.0	725.1	755.9	780.6
Peru	26.0	26.6	25.2	26.0	113.0	116.6
Philippines	7.8	16.5	14.7	10.6	8.5	7.8
Qatar	192.7	167.5	129.2	202.1	196.0	158.0
Ra's al Kaymah	NA	NA	NA	NA	9.1	11.1
Saudi Arabia	3,000.0	2,392.0	2,100.0	2,100.0	1,505.9	1,107.0
Sharjah	10.5	6.9	6.9	5.9	5.9	8.6
Spain	21.8	28.4	57.8	44.8	49.1	36.1
Thailand	0.0	6.0	6.8	8.0	13.4	15.9
Trinidad	154.0	135.2	123.3	137.5	135.7	127.8
Tunisia	34.0	30.5	39.2	35.8	29.7	6.1
United Kingdom	1,800.0	2,060.0	2,270.9	2,479.2	2,548.6	2,236.6
United States	1,055.9	1,129.5	1,190.5	1,255.7	1,280.8	1,257.0
U.S.S.R.	196.0	177.0	175.0	168.0	165.0	165.0
Venezuela	1,043.6	1,026.1	1,128.2	1,100.0	951.1	900.0
Zaire	19.0	21.5	21.3	26.8	17.6	16.6
Total World	**13,636.7**	**13,561.2**	**13,723.6**	**15,249.2**	**15,174.1**	**13,478.8**

Data from Oil & Gas Journal Energy Database.
Source: Offshore Magazine, Minerals Management Service

North Sea Crude Oil Production
Thousands of barrels per day

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1971	1.7	1.7	1.7	1.6	1.6	1.6	8.4	12.1	16.6	19.1	13.2	14.4	**7.8**
1972	11.1	33.0	36.7	42.6	41.5	40.9	50.7	51.0	45.7	44.6	29.3	31.4	**38.2**
1973	43.6	33.0	47.9	34.4	44.6	46.0	40.7	41.0	41.0	44.0	44.0	9.5	**39.1**
1974	8.0	31.0	23.0	17.0	36.0	44.0	53.0	53.0	56.0	50.0	63.0	52.0	**40.5**
1975	262.0	83.0	129.0	156.0	156.0	234.0	279.0	247.0	319.0	282.0	253.0	371.0	**230.9**
1976	382.0	397.0	396.0	339.0	357.0	485.0	577.0	583.0	616.0	677.0	643.0	823.0	**522.9**
1977	881.0	982.0	1,042.0	958.0	985.0	1,035.0	990.0	1,103.0	1,121.0	1,153.0	1,137.0	1,252.0	**1,053.3**
1978	1,287.0	1,337.0	1,241.0	1,356.0	1,462.0	1,393.0	1,460.0	1,490.0	1,464.0	1,517.0	1,647.0	1,715.0	**1,447.4**
1979	1,877.0	1,877.0	1,705.0	1,859.0	2,028.0	2,106.0	2,089.0	2,058.0	2,159.0	1,982.0	2,029.0	2,055.0	**1,985.3**
1980	2,186.1	2,279.1	2,245.1	2,092.1	2,183.1	2,149.1	1,853.1	2,080.1	2,041.1	2,103.1	2,271.1	2,313.1	**2,149.7**
1981	2,290.2	2,336.2	2,408.2	2,376.2	2,290.2	2,373.2	2,321.2	2,116.2	2,315.2	2,262.2	2,381.2	2,413.2	**2,323.6**
1982	2,437.6	2,407.6	2,482.6	2,642.6	2,577.6	2,545.6	2,615.6	2,580.6	2,629.6	2,618.6	2,717.6	2,746.6	**2,583.5**
1983	2,701.0	2,982.0	2,911.0	2,821.0	2,789.0	2,732.0	3,015.0	2,911.0	3,033.0	3,073.0	3,199.0	3,266.0	**2,952.8**
1984	3,273.4	3,324.4	3,202.4	3,224.4	3,197.4	3,102.4	3,157.4	3,058.4	3,221.4	3,448.4	3,450.4	3,524.4	**3,265.4**
1985	3,515.9	3,447.9	3,451.9	3,476.9	3,454.9	2,927.9	3,309.9	3,117.9	3,505.9	3,648.9	3,635.9	3,452.9	**3,412.2**
1986	3,674.9	3,684.9	3,672.9	2,997.0	3,432.0	3,163.0	3,656.0	3,591.0	3,484.0	3,602.0	3,575.0	3,472.0	**3,500.4**

Data from Oil & Gas Journal Energy Database
Source: Oil & Gas Journal

Offshore Natural Gas Production
By Country
Millions of cubic feet per day

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Abu Dhabi	NA	510.0	615.0	629.0	627.0	1,434.0	710.0	317.0	464.0	414.0	372.0	315.0
Angola	NA	NA	NA	NA	NA	NA	NA	NA	251.6	268.0	275.0	271.0
Australia	203.0	293.0	651.0	847.0	540.0	388.0	551.7	550.0	610.0	638.0	677.0	1,448.6
Brazil	25.0	26.0	25.0	65.9	91.4	100.0	116.1	94.8	193.3	221.0	235.0	215.0
Brunei	NA	NA	NA	988.0	1,030.0	984.8	875.0	850.0	900.0	900.0	833.0	815.0
Colombia	NA	NA	NA	NA	33.0	64.7	156.0	99.1	34.8	176.0	219.0	127.0
Congo	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.0	3.0	3.0
Denmark	NA	NA	NA	NA	NA	NA	NA	NA	NA	90.0	200.0	462.0
Egypt	NA	NA	NA	72.0	65.0	57.9	60.0	73.0	94.1	116.0	112.0	110.0
Gabon	NA	NA	NA	0.6	0.0	0.0	7.8	NA	7.8	0.1	0.3	0.0
Ghana	NA	NA	NA	NA	NA	8.0	8.0	7.4	NA	NA	NA	NA
Greece	NA	NA	NA	NA	NA	NA	NA	NA	8.2	3.0	7.0	5.0
India	NA	NA	NA	3.4	48.5	2.7	2.2	141.0	170.0	246.0	243.0	240.6
Indonesia	158.8	345.7	621.9	561.0	439.3	440.0	632.0	550.0	657.0	872.0	757.0	663.7
Ireland	NA	NA	NA	1.8	125.0	125.0	124.0	150.0	220.0	223.1	230.3	230.0
Italy	NA	NA	NA	38.0	23.0	22.0	884.0	1,018.0	312.3	408.1	414.7	415.1
Japan	NA	NA	NA	60.0	35.0	47.7	30.0	27.7	27.0	27.0	26.0	55.0
Malaysia	NA	NA	NA	NA	NA	NA	NA	NA	722.0	400.0	486.0	1,440.3
Mexico	NA	NA	NA	107.9	22.8	25.0	584.7	895.9	901.4	1,002.5	937.0	950.0
Netherlands	186.0	298.4	530.0	530.0	1,062.3	1,170.0	1,140.0	1,071.0	1,257.0	1,528.1	1,537.7	1,480.0
New Zealand	NA	NA	NA	NA	NA	NA	NA	163.0	177.4	336.0	513.0	369.0
Nigeria	NA	NA	NA	NA	NA	NA	NA	500.0	480.0	493.0	487.0	475.0
Norway	16.5	560.0	269.0	1,375.0	2,252.8	2,426.0	2,837.5	2,500.0	3,093.0	2,976.0	2,910.0	3,011.0
Oman	NA	NA	NA	NA	NA	NA	NA	NA	NA	52.0	48.0	35.1
Qatar	NA	NA	NA	NA	NA	NA	NA	NA	85.0	92.2	97.3	0.0
Spain	NA	NA	NA	850.1	NA	NA	NA	NA	NA	26.6	26.0	26.0
Thailand	NA	NA	NA	NA	NA	NA	NA	NA	NA	256.0	346.0	341.9
Trinidad	123.0	311.2	344.3	428.5	404.4	420.0	500.0	488.3	470.0	350.0	346.0	0.6
United Kingdom	3,600.0	3,700.0	3,880.0	3,925.9	3,981.5	3,610.0	3,462.0	3,703.0	3,824.0	5,560.0	5,826.0	5,600.0
United States	11,410.2	11,823.0	12,320.3	14,065.9	14,917.5	14,745.9	15,195.8	14,707.5	12,569.3	13,824.2	12,113.3	11,917.0
U.S.S.R.	774.0	897.0	996.0	1,064.0	1,161.0	1,225.0	1,332.0	1,420.0	NA	1,520.0	1,475.0	1,300.0
Venezuela	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,693.0	1,693.0	1,510.0
Total World	**16,496.5**	**18,764.3**	**20,252.5**	**25,614.0**	**26,859.5**	**27,296.6**	**29,208.7**	**29,326.6**	**27,529.3**	**34,714.8**	**33,445.6**	**33,831.9**

Data from Oil & Gas Journal Energy Database.
Source: Offshore Magazine, Minerals Management Service

Offshore Wells Drilled
By Country

	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Abu Dhabi	24	2	NA	40	49	56	59	71	85	76	89	110	110	70	48
Angola-Cabinda	16	21	13	NA	0	0	9	7	2	21	58	74	44	49	38
Argentina	0	2	0	NA	NA	4	4	2	5	9	10	9	0	5	2
Australia	58	37	30	19	3	15	34	30	24	26	57	54	78	60	48
Brazil	NA	48	52	NA	41	70	96	148	139	121	148	181	132	168	180
Brunei	NA	NA	NA	NA	NA	NA	63	57	30	26	55	39	62	60	36
Cameroon	1	3	5	NA	NA	0	24	15	15	40	68	60	65	57	32
Canada	19	29	21	67	21	2	10	17	14	21	21	30	34	53	25
Chile	NA	NA	NA	NA	4	21	28	34	28	63	59	63	68	52	63
China	NA	NA	NA	NA	NA	NA	55	15	15	9	17	30	40	26	7
Congo	NA	NA	NA	NA	NA	NA	27	14	2	41	73	65	17	10	4
Denmark	NA	4	2	7	12	4	4	2	0	12	22	29	5	4	37
Dubai	NA	NA	NA	NA	NA	NA	2	2	3	13	29	29	33	20	13
Ecuador	1	0	0	NA	NA	NA	NA	0	7	1	2	3	0	0	0
Egypt	NA	NA	17	21	33	44	34	37	30	83	84	133	124	132	111
France	1	1	1	NA	2	1	2	4	3	7	4	3	1	2	0
Gabon	30	15	13	NA	36	24	17	29	27	45	50	48	32	34	21
Germany, West	NA	0	4	6	NA	11	7	3	3	5	9	4	12	8	1
Ghana	2	1	1	NA	NA	NA	6	2	2	3	1	2	2	2	0
Greece	2	3	1	1	NA	NA	8	6	6	9	11	0	0	0	0
India	1	1	2	NA	18	36	20	23	34	37	54	81	105	117	118
Indonesia	121	143	144	143	127	92	111	116	75	204	261	315	263	257	166
Iran	17	25	NA	0	36	NA	55	3	3	2	5	5	NA	NA	0
Ireland	3	8	5	6	6	6	21	16	3	8	3	6	6	5	8
Italy	31	24	30	NA	22	27	37	36	34	44	62	51	49	43	36
Ivory Coast	NA	1	1	NA	2	12	5	1	9	18	26	7	8	6	10
Japan	4	6	5	NA	2	38	9	5	7	7	10	7	23	12	11
Libya	NA	NA	NA	NA	8	NA	0	4	5	6	5	6	3	NA	0
Malaysia	NA	NA	NA	8	46	NA	90	73	17	86	110	108	106	112	81
Mexico	8	49	35	23	11	9	12	15	47	46	53	24	28	32	16
Netherlands	10	21	26	31	35	47	37	30	38	40	65	58	55	78	65
New Zealand	4	1	0	3	6	NA	16	2	0	4	0	2	8	5	3
Nigeria	49	17	17	64	52	310	185	25	53	46	89	47	28	25	20
Norway	21	20	36	48	30	33	69	28	36	39	80	62	78	87	72
Peru	10	6	49	39	NA	NA	44	25	53	46	89	47	70	58	38
Philippines	2	4	9	NA	10	15	7	23	12	15	11	1	2	0	0
Qatar	5	0	2	7	NA	3	2	10	3	18	15	8	13	10	1
Saudi Arabia	23	14	NA	57	40	NA	56	30	37	46	84	82	70	65	48
Sierra Leone	NA	NA	NA	NA	NA	NA	NA	0	0	0	1	0	0	0	0
South Africa	NA	8	1	NA	3	5	5	8	9	15	10	14	11	17	10
Spain	7	0	4	11	25	17	19	17	16	19	21	16	15	14	10
Taiwan	NA	7	3	NA	7	8	12	6	11	6	2	5	2	7	9
Thailand	NA	5	13	11	17	NA	7	0	24	26	41	96	79	63	15
Trinidad	14	38	45	55	64	42	51	67	46	54	44	42	38	35	20
Tunisia	NA	NA	29	12	15	NA	9	16	12	15	17	12	8	10	8
United Kingdom	102	82	121	136	140	201	158	151	176	209	235	223	182	157	152
United States*	1,[illegible]53	915	890	960	951	1,224	1,155	1,115	1,067	1,156	1,134	1,152	1,325	1,118	843
U.S.S.R.	177	100	105	100	96	92	90	92	85	87	85	87	90	86	90
Venezuela	724	267	243	143	NA	275	353	16	14	12	17	17	8	7	3
Zaire	NA	6	1	NA	NA	NA	NA	0	3	4	6	6	5	5	3
Others	103	97	85	140	59	13	18	56	11	24	0	32	113	1	2
Total World	**2,843**	**2,031**	**2,061**	**2,158**	**2,029**	**2,757**	**3,142**	**2,504**	**2,380**	**2,970**	**3,502**	**3,585**	**3,650**	**3,244**	**2,524**

* U.S. figures are as completed for 1972-1984 from API. 1985-1986 are Offshore estimates of final total.

Data from Oil & Gas Journal Energy Database.
Source: Offshore Magazine, American Petroleum Institute

Transportation

The major modes of transport in the oil and gas industry are pipelines and water carriers. Only a small portion of the transportation is provided by other surface carriers such as railroads and trucks, although trucking does play a significant role in regional distribution to the ultimate consumer or retail distributor.

Pipelines provide transportation for both crude oil and petroleum products in the oil sector and pipelines are almost the sole means of transporting natural gas. Pipelines play a significant role in transport throughout Europe as well as the U.S. In Europe, pipelines are used to transport crude, products and natural gas through an extensive network. The need for pipelines is growing worldwide as crude oil and natural gas resources are developed in more areas.

Water carriers (primarily tankers) also play a significant role in the transport of crude oil and petroleum products. Tankers are essential to the industry as a means of transporting the huge volumes of crude oil and products which are traded in international markets. Tanker activity is subject to the cycles in the industry as shifting demand patterns increase or decrease the volumes of crude and products to be moved. On a regional basis, barges can also be an important means of transportation.

The employment and use of tankers is directly related to the level of demand. The vast majority of crude oil is consumed in the industrial nations which have relatively small domestic crude supplies. So the crude must be transported from the producing areas to meet demand. Thus the level of activity for the tanker fleet is dependent upon the level of demand in industrial nations.

U.S. demand levels have possibly the greatest impact on tanker activity. The U.S. comprises a substantial percentage of world demand and is farther from many major producing areas than most other industrial nations. This keeps tankers employed longer in delivering crude or products to the U.S.

Although pipelines are permanent fixtures providing transport between two points, this sector of the industry is also relatively dynamic. Demand patterns are continually changing, requiring the construction of new pipelines. And the development of oil and gas reserves in new areas also creates a need for new pipeline facilities.

This chapter of the Energy Statistics Sourcebook contains the key data for analysis of the transportation sector of the industry.

Transportation

Interstate Pipeline Mileage, Liquids & Natural Gas, Total U.S., Annual, 380
Crude & Products Transported, By Carrier Type, Total U.S., Annual, 381
Non-Communist Pipeline Construction, By Size, Annual, 382
Non-Communist Pipeline Construction, By Type, By Region, Annual, 383
World Tanker Fleet, By Size, Annual, 384

U.S. Interstate Pipeline Mileage
Miles

	Natural Gas Pipelines	Liquids Pipelines	All Pipelines
1972	246,551	173,532	420,083
1973	248,773	170,691	419,464
1974	246,872	173,341	420,213
1975	255,792	172,680	428,472
1976	254,548	174,072	428,590
1977	256,198	170,948	427,146
1978	258,576	162,452	421,028
1979	264,134	169,794	433,928
1980	274,248	172,673	446,921
1981	274,634	172,815	447,449
1982	286,999	172,549	459,548
1983	285,204	167,819	453,023
1984	258,379	173,922	432,301
1985	258,395	171,401	429,796

Data from Oil & Gas Journal Energy Database.
Source: Oil & Gas Journal

U.S. Crude and Petroleum Products Transported
Billions of ton miles

Total Crude and Products

	Total Transported	By Pipeline	% of Total	By Water	% of Total	By Motor Carrier	% of Total	By Railroad	% of Total
1972	838.8	475.8	56.7	330.0	39.3	23.0	2.7	10.0	1.2
1973	843.6	507.0	60.1	296.8	35.2	25.0	3.0	14.8	1.8
1974	847.7	506.0	59.7	297.0	35.0	29.0	3.4	15.7	1.9
1975	846.7	507.0	59.9	298.0	35.2	27.6	3.3	14.1	1.7
1976	867.7	515.0	59.4	306.9	35.4	32.5	3.7	13.3	1.5
1977	923.4	546.0	59.1	333.3	36.1	29.6	3.2	14.5	1.6
1978	1,160.2	585.8	50.5	530.6	45.7	30.6	2.6	13.2	1.1
1979	1,174.8	608.3	51.8	522.9	44.5	30.1	2.6	13.5	1.1
1980	1,245.3	588.2	47.2	617.8	49.6	26.8	2.2	12.5	1.0
1981	1,218.4	563.7	46.3	617.2	50.7	24.9	2.0	12.6	1.0
1982	1,218.2	565.7	46.4	616.9	50.6	22.7	1.9	12.9	1.1
1983	1,223.5	556.1	45.5	630.5	51.5	25.1	2.1	11.8	1.0
1984	1,180.2	568.1	48.1	570.7	48.4	29.2	2.5	12.2	1.0
1985	1,195.5	564.3	47.2	590.4	49.4	28.7	2.4	12.1	1.0

Crude

	Total Transported	By Pipeline	% of Total	By Water	% of Total	By Motor Carrier	% of Total	By Railroad	% of Total
1972	362.0	284.5	78.6	76.0	21.0	1.0	0.3	0.5	0.1
1973	363.2	302.0	83.1	58.8	16.2	1.3	0.4	1.1	0.3
1974	358.9	303.0	84.4	53.0	14.8	1.3	0.4	1.6	0.4
1975	331.5	288.0	86.9	40.6	12.2	1.4	0.4	1.5	0.5
1976	343.8	303.0	88.1	37.8	11.0	2.1	0.6	0.9	0.3
1977	392.5	326.6	83.2	63.1	16.1	2.0	0.5	0.8	0.2
1978	623.5	359.5	57.7	261.3	41.9	2.0	0.3	0.7	0.1
1979	640.6	372.2	58.1	265.5	41.4	2.3	0.4	0.6	0.1
1980	753.0	362.6	48.2	387.4	51.4	2.5	0.3	0.5	0.1
1981	740.7	333.1	45.0	404.9	54.7	2.2	0.3	0.5	0.1
1982	770.2	335.1	43.5	432.7	56.2	2.0	0.3	0.4	0.1
1983	806.1	332.4	41.2	471.2	58.5	2.0	0.2	0.5	0.1
1984	748.4	333.0	44.5	412.6	55.1	2.2	0.3	0.6	0.1
1985	786.2	334.4	42.5	449.2	57.1	1.8	0.2	0.8	0.1

Petroleum Products

	Total Transported	By Pipeline	% of Total	By Water	% of Total	By Motor Carrier	% of Total	By Railroad	% of Total
1972	476.8	191.3	40.1	254.0	53.3	22.0	4.6	9.5	2.0
1973	480.4	205.0	42.7	238.0	49.5	23.7	4.9	13.7	2.9
1974	488.8	203.0	41.5	244.0	49.9	27.7	5.7	14.1	2.9
1975	515.2	219.0	42.5	257.4	50.0	26.2	5.1	12.6	2.4
1976	523.9	212.0	40.5	269.1	51.4	30.4	5.8	12.4	2.4
1977	530.9	219.4	41.3	270.2	50.9	27.6	5.2	13.7	2.6
1978	536.7	226.3	42.2	269.3	50.2	28.6	5.3	12.5	2.3
1979	534.2	236.1	44.2	257.4	48.2	27.8	5.2	12.9	2.4
1980	492.3	225.6	45.8	230.4	46.8	24.3	4.9	12.0	2.4
1981	477.7	230.6	48.3	212.3	44.4	22.7	4.8	12.1	2.5
1982	448.0	230.6	51.5	184.2	41.1	20.7	4.6	12.5	2.8
1983	417.4	223.7	53.6	159.3	38.2	23.1	5.5	11.3	2.7
1984	431.8	235.1	54.4	158.1	36.6	27.0	6.3	11.6	2.7
1985	409.3	229.9	56.2	141.2	34.5	26.9	6.6	11.3	2.8

Data from Oil & Gas Journal Energy Database.
Source: Association of Oil Pipelines

Pipeline Construction* by Size
Total Non-Communist
Mileage

	4-10" Diameter Pipeline	12-20" Diameter Pipeline	22-30" Diameter Pipeline	Greater than 30" Diameter Pipeline	Total Pipeline Mileage Constructed
1980	9,975	6,940	9,289	9,332	**35,536**
1981	9,492	5,935	6,254	8,627	**30,308**
1982	7,265	6,695	9,512	6,467	**29,939**
1983	6,382	6,213	10,546	4,510	**27,651**
1984	4,460	5,096	6,568	4,978	**21,102**
1985	7,105	5,196	3,153	2,820	**18,274**
1986	6,587	5,800	3,520	3,493	**19,400**
1987	6,071	3,706	3,546	2,610	**15,933**

* Figures represent estimates of pipeline to be laid during year based on a survey done early in the year. Actual miles of pipe laid may differ.

Data from Oil & Gas Journal Energy Database
Source: Oil & Gas Journal

Pipeline Construction* By Region and Type
Mileage

GAS PIPELINES	1980	1981	1982	1983	1984	1985	1986	1987
Africa	1,514	1,110	345	160	715	908	1,086	674
Asia-Pacific	588	1,568	1,103	3,120	1,638	2,780	4,733	421
Canada	621	2,061	2,737	1,971	961	1,929	1,479	997
Latin America	3,392	2,088	4,148	2,813	2,592	259	1,521	1,322
Middle East	160	25	339	299	1,218	573	509	6
U.S.	9,272	10,986	11,974	7,770	5,437	2,869	3,163	3,400
Western Europe	4,859	1,495	1,499	2,240	1,895	2,621	634	3,432
Total Non-Communist	**20,406**	**19,333**	**22,145**	**18,373**	**14,456**	**11,939**	**13,125**	**10,252**

CRUDE OIL PIPELINES	1980	1981	1982	1983	1984	1985	1986	1987
Africa	376	234	1,146	1,220	455	1,413	733	312
Asia-Pacific	504	424	571	5	512	21	61	50
Canada	1,267	341	271	542	414	696	654	422
Latin America	2,455	577	556	590	312	221	955	464
Middle East	808	975	214	611	983	905	0	1,419
U.S.	1,966	1,441	288	1,505	1,460	472	314	874
Western Europe	753	309	0	355	0	280	1,881	41
Total Non-Communist	**8,129**	**4,301**	**3,046**	**4,828**	**4,136**	**4,008**	**4,598**	**3,582**

PRODUCTS PIPELINES	1980	1981	1982	1983	1984	1985	1986	1987
Africa	0	317	504	467	2	0	37	0
Asia-Pacific	287	923	1,204	46	122	117	90	142
Canada	279	282	401	94	136	316	305	145
Latin America	1,685	837	801	2,003	480	480	288	460
Middle East	1,137	1,054	35	29	371	314	0	406
U.S.	3,457	3,191	1,511	1,811	1,234	1,052	939	946
Western Europe	156	70	292	0	165	48	18	0
Total Non-Communist	**7,001**	**6,674**	**4,748**	**4,450**	**2,510**	**2,327**	**1,677**	**2,099**

* Figures are estimated miles of pipeline to be laid during the year based on a survey taken at the beginning of the year. Actual miles of pipe laid may differ from these figures.

Data from Oil & Gas Journal Energy Database.
Source: Oil & Gas Journal

World Tanker Fleet by Size
Millions of deadweight tons

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
10-25,000	17.5	16.1	14.8	14.2	14.1	13.8	13.5	13.0	12.8	12.3	12.4
25-45,000	27.3	26.6	24.6	24.2	24.6	26.0	27.2	27.4	26.3	25.8	26.3
45-65,000	19.9	18.2	16.1	15.3	16.1	16.6	16.1	15.3	15.7	15.0	14.2
65-125,000	54.4	54.2	50.8	51.2	52.5	55.4	51.8	48.4	46.2	44.4	46.6
125-200,000	28.7	32.3	33.3	33.4	33.0	31.2	30.2	28.8	28.9	28.4	27.5
200-320,000	144.8	156.6	157.4	157.7	155.4	146.5	134.5	120.4	111.6	94.9	90.6
320,000 & Over	28.1	28.5	31.5	31.9	29.1	30.7	30.4	29.9	28.2	26.0	23.4
Total World	320.7	332.5	328.5	327.9	324.8	320.2	303.7	283.2	269.7	246.8	241.0

Data from Oil & Gas Journal Energy Database
Source British Petroleum

Energy

Consumption of energy moved hand in hand with economic growth throughout the 1950's and 1960's. Low cost energy, primarily oil, fueled the expansion of the industrial economies in the post-war period And low cost oil became the foundation for economic growth in the developing countries.

Between 1950 and 1970, real U.S. gross national product (GNP) increased 100.2%. Over that same period, total energy consumption increased 97.5%, and oil consumption increased 119%. This close relationship between economic growth and energy consumption existed throughout the world during this period. It was expected to continue indefinitely.

The rapid increase in oil prices in the 1970's drastically changed this relationship. Oil prices skyrocketed, but natural gas, nuclear energy and other energy costs also increased substantially. Energy conservation became the rule.

Between 1970 and 1986, real GNP in the U.S. increased 52.1%. Over the same 16 years energy consumption increased only 10% and oil consumption was up only 10.8%. In the U.S., energy efficiency, as measured by energy consumption per dollar of GNP, has improved every year from 1970 through 1986.

The energy industry has also become far more competitive. There is considerably more competition between various basic energy sources than in the past. Many major consumers of energy installed dual or multiple fuel capabilities, contributing greatly to competition. Major consumers can now select the most cost effective fuel to reduce their overall energy costs.

Changes in the structure of the economy are also having an impact on the quantity of energy demanded and on the type of fuel used. The shift from heavy industry to a more service and information oriented economy is increasing the demand for electricity. This has led to the expansion of nuclear power and growth in the demand for coal as new electrical capacity is created to meet demand.

This chapter of the Energy Statistics Sourcebook has all of the key data for analysis of the basic energy industry. Analysis of the energy industry is really the starting point for any detailed analysis of the oil and gas industry or any other individual segment. A good understanding of energy consumption and its relationship to economic growth is essential to any study or forecast of the industry.

Energy

Energy Consumption & Efficiency, Total U.S., Annual, 388
Energy Production, By Source, Total U.S., Annual, 389
Energy Production, By Source, Total U.S., Monthly, 390
Energy Consumption, By Source, Total U.S., Annual, 393
Energy Consumption, By Source, Total U.S., Monthly, 394
Energy Consumption, By Sector, Total U.S., Annual, 396
Energy Consumption, By Sector, Total U.S., Monthly, 397
Annual Energy Consumption Growth Rates, By State, Pre- & Post-Embargo, 399
Energy Consumption by Source & Sector, By State, 1985, 400
Installed Electric Nameplate Capacity, By Type, Total U.S., Annual, 401
Electric Power Production, By Source, Total U.S., Annual, 403
Sales of Electricity, By Sector, Total U.S., Annual, 404
Sales of Electricity, By Sector, Total U.S., Monthly, 405
Coal Production, Imports, Exports, Consumption & Stocks, Total U.S., Annual, 407
Nuclear Power Production, Total U.S., Annual, 408
Worldwide Primary Energy Consumption, By Country & Region, Annual, 409
Worldwide Coal Production, By Country, Annual, 411
Worldwide Hydroelectric Power Production, By Country, Annual, 412
Worldwide Nuclear Electric Power Production, By Country, Annual, 413

Energy Consumption and Efficiency

	GNP, Billion 1982 $	Energy Consumption Trillion BTU	Energy Consumption per GNP $, 1,000 BTU	Oil Consumption Trillion BTU	Oil Consumption per GNP $, 1,000 BTU
1929	711.8	23,756	33.4	5,521	7.8
1933	501.6	16,900	33.7	4,833	9.6
1940	775.0	23,589	30.4	7,407	9.6
1946	1,077.8	30,494	28.3	10,002	9.3
1950	1,206.6	33,992	28.2	13,489	11.2
1955	1,494.9	39,703	26.6	17,524	11.7
1960	1,665.3	44,569	26.8	20,067	12.1
1965	2,087.6	53,343	25.6	23,242	11.1
1970	2,416.2	67,143	27.8	29,537	12.2
1971	2,484.8	68,348	27.5	30,570	12.3
1972	2,608.5	71,643	27.5	32,966	12.6
1973	2,744.1	74,282	27.1	34,840	12.7
1974	2,729.3	72,543	26.6	33,455	12.3
1975	2,695.0	70,546	26.2	32,731	12.1
1976	2,826.7	74,362	26.3	35,175	12.4
1977	2,958.6	76,289	25.8	37,122	12.5
1978	3,115.2	78,088	25.1	37,965	12.2
1979	3,192.4	78,898	24.7	37,123	11.6
1980	3,187.1	75,952	23.8	34,202	10.7
1981	3,248.8	73,989	22.8	31,931	9.8
1982	3,166.0	70,840	22.4	30,232	9.5
1983	3,277.7	70,495	21.5	30,054	9.2
1984	3,492.0	74,108	21.2	31,051	8.9
1985	3,585.2	73,962	20.6	30,922	8.6
1986	3,674.9	73,873	20.1	31,887	8.7
1987	3,769.1	74,740	19.8	32,035	8.5
Rates of change, %					
1929-40	8.9	-0.7	-9.0	34.2	23.1
1940-50	55.7	44.1	-7.2	82.1	16.7
1950-70	100.2	97.5	-1.4	119.0	8.9
1970-87	52.1	10.0	-27.7	8.0	-28.7

Data from Oil & Gas Journal Energy Database.

Source: Department of Commerce, Energy Information Administration, Oil & Gas Journal

Total U.S. Energy Production by Source
Quadrillion BTU's

	Coal	Petroleum	Natural Gas Liquids	Natural Gas	Hydro-electric	Nuclear Electric	Geo-thermal	Wood & Waste	Total Production
1949	11.97	10.68	0.71	5.38	1.42	0.00	0.00	0.00	**30.18**
1950	14.06	11.45	0.82	6.23	1.42	0.00	0.00	0.00	**33.98**
1951	14.42	13.04	0.92	7.42	1.42	0.00	0.00	0.00	**37.22**
1952	12.74	13.28	1.00	7.96	1.47	0.00	0.00	0.00	**36.46**
1953	12.29	13.67	1.06	8.34	1.41	0.00	0.00	0.00	**36.78**
1954	10.55	13.43	1.11	8.68	1.36	0.00	0.00	0.00	**35.14**
1955	12.38	14.41	1.24	9.34	1.36	0.00	0.00	0.00	**38.74**
1956	13.32	15.18	1.28	10.00	1.43	0.00	0.00	0.00	**41.22**
1957	13.07	15.18	1.29	10.61	1.52	0.00	0.00	0.00	**41.66**
1958	10.79	14.20	1.29	10.94	1.59	0.00	0.00	0.00	**38.82**
1959	10.79	14.93	1.38	11.95	1.55	0.00	0.00	0.00	**40.61**
1960	10.83	14.93	1.46	12.66	1.61	0.01	0.00	0.00	**41.50**
1961	10.46	15.21	1.55	13.10	1.66	0.02	0.00	0.00	**42.00**
1962	10.91	15.52	1.59	13.72	1.82	0.03	0.00	0.00	**43.59**
1963	11.86	15.97	1.71	14.51	1.77	0.04	0.00	0.00	**45.86**
1964	12.53	16.16	1.80	15.30	1.89	0.04	0.00	0.00	**47.73**
1965	13.07	16.52	1.88	15.78	2.06	0.04	0.00	0.00	**49.35**
1966	13.48	17.56	2.00	17.01	2.06	0.06	0.00	0.00	**52.18**
1967	13.84	18.65	2.18	17.94	2.35	0.09	0.01	0.00	**55.05**
1968	13.62	19.31	2.32	19.07	2.35	0.14	0.01	0.00	**56.82**
1969	13.87	19.56	2.42	20.45	2.65	0.15	0.01	0.00	**59.11**
1970	14.61	20.40	2.51	21.67	2.63	0.24	0.01	0.00	**62.08**
1971	13.20	20.03	2.54	22.28	2.82	0.41	0.01	0.00	**61.31**
1972	14.09	20.04	2.60	22.21	2.86	0.58	0.03	0.00	**62.42**
1973	13.99	19.49	2.57	22.19	2.86	0.91	0.04	0.00	**62.06**
1974	14.07	18.57	2.47	21.21	3.18	1.27	0.05	0.00	**60.83**
1975	14.99	17.73	2.37	19.64	3.15	1.90	0.07	0.00	**59.86**
1976	15.65	17.26	2.33	19.48	2.98	2.11	0.08	0.00	**59.89**
1977	15.76	17.45	2.33	19.57	2.33	2.70	0.08	0.01	**60.22**
1978	14.91	18.43	2.25	19.49	2.94	3.02	0.06	0.00	**61.10**
1979	17.54	18.10	2.29	20.08	2.93	2.71	0.08	0.01	**63.80**
1980	18.60	18.25	2.25	19.92	2.90	2.74	0.11	0.00	**64.76**
1981	18.38	18.15	2.31	19.70	2.76	3.01	0.12	0.00	**64.42**
1982	18.64	18.31	2.19	18.25	3.26	3.13	0.10	0.00	**63.89**
1983	17.25	18.39	2.18	16.53	3.50	3.20	0.13	0.00	**61.19**
1984	19.72	18.85	2.27	17.93	3.36	3.55	0.16	0.01	**65.81**
1985	19.33	18.99	2.24	16.92	2.94	4.15	0.20	0.01	**64.78**
1986	19.48	18.35	2.17	16.49	3.04	4.48	0.22	0.01	**64.25**

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration

Total U.S. Energy Production by Source
Quadrillion BTU's

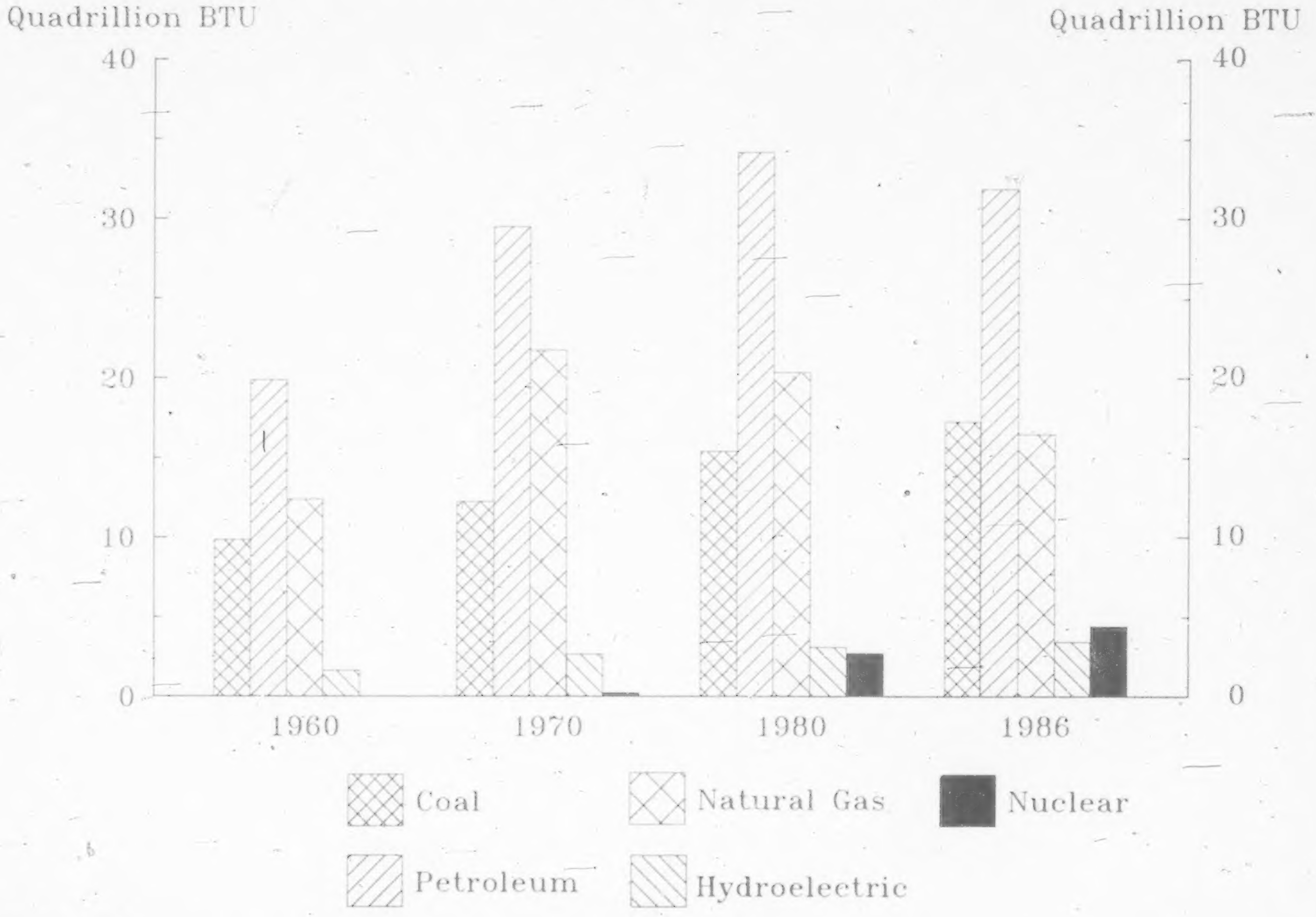
	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1978													
Coal	0.54	0.55	0.90	1.38	1.59	1.52	1.24	1.49	1.34	1.61	1.60	1.38	**15.14**
Crude Oil	1.50	1.36	1.58	1.51	1.58	1.53	1.57	1.58	1.53	1.59	1.52	1.55	**18.40**
Natural Gas Liquids	0.19	0.17	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.19	0.19	**2.25**
Natural Gas	1.71	1.59	1.68	1.60	1.60	1.56	1.63	1.59	1.51	1.57	1.54	1.64	**19.22**
Hydroelectric	0.26	0.24	0.26	0.27	0.30	0.26	0.26	0.23	0.22	0.21	0.21	0.23	**2.95**
Nuclear Electric	0.28	0.23	0.24	0.19	0.22	0.24	0.27	0.28	0.24	0.25	0.27	0.27	**2.98**
Other Energy	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.01	**0.06**
Total Production	**4.49**	**4.14**	**4.86**	**5.15**	**5.48**	**5.31**	**5.17**	**5.36**	**5.02**	**5.42**	**5.33**	**5.28**	**61.01**
1979													
Coal	1.30	1.23	1.50	1.43	1.56	1.59	1.20	1.61	1.45	1.76	1.54	1.36	**17.53**
Crude Oil	1.52	1.38	1.54	1.48	1.54	1.56	1.50	1.56	1.47	1.54	1.50	1.54	**18.13**
Natural Gas Liquids	0.19	0.17	0.19	0.19	0.19	0.18	0.19	0.19	0.18	0.20	0.20	0.20	**2.27**
Natural Gas	1.72	1.61	1.71	1.64	1.67	1.61	1.61	1.64	1.59	1.65	1.67	1.76	**19.88**
Hydroelectric	0.26	0.22	0.27	0.27	0.30	0.26	0.24	0.22	0.20	0.21	0.24	0.24	**2.93**
Nuclear Electric	0.30	0.28	0.26	0.20	0.16	0.17	0.22	0.26	0.23	0.22	0.21	0.22	**2.73**
Other Energy	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	**0.12**
Total Production	**5.29**	**4.90**	**5.48**	**5.22**	**5.44**	**5.28**	**4.98**	**5.50**	**5.14**	**4.60**	**5.36**	**5.34**	**62.53**
1980													
Coal	1.57	1.48	1.50	1.57	1.30	1.61	1.38	1.55	1.55	1.63	1.55	1.63	**18.32**
Crude Oil	1.55	1.46	1.57	1.51	1.55	1.49	1.54	1.51	1.50	1.53	1.48	1.55	**18.24**
Natural Gas Liquids	0.20	0.19	0.19	0.19	0.19	0.18	0.19	0.19	0.18	0.18	0.19	0.19	**2.26**
Natural Gas	1.78	1.67	1.79	1.63	1.66	1.55	1.58	1.54	1.55	1.62	1.62	1.76	**19.75**
Hydroelectric	0.27	0.23	0.26	0.27	0.30	0.29	0.26	0.22	0.19	0.19	0.20	0.23	**2.91**
Nuclear Electric	0.21	0.21	0.22	0.20	0.20	0.20	0.23	0.26	0.25	0.26	0.23	0.24	**2.71**
Other Energy	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	**0.12**
Total Production	**5.60**	**5.25**	**5.63**	**5.40**	**5.52**	**5.34**	**5.18**	**5.28**	**5.24**	**5.43**	**5.27**	**5.61**	**64.75**
1981													
Coal	1.47	1.58	1.74	0.81	0.85	1.37	1.65	1.75	1.82	1.90	1.70	1.70	**18.34**
Crude Oil	1.53	1.40	1.55	1.47	1.53	1.50	1.53	1.54	1.50	1.54	1.49	1.54	**18.12**
Natural Gas Liquids	0.20	0.18	0.20	0.19	0.19	0.19	0.19	0.20	0.19	0.19	0.19	0.19	**2.30**
Natural Gas	1.73	1.55	1.71	1.65	1.68	1.61	1.64	1.68	1.56	1.62	1.58	1.70	**19.71**
Hydroelectric	0.24	0.22	0.22	0.22	0.25	0.28	0.27	0.23	0.19	0.19	0.20	0.25	**2.76**
Nuclear Electric	0.26	0.24	0.24	0.23	0.22	0.23	0.25	0.30	0.27	0.23	0.25	0.29	**3.01**
Other Energy	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	**0.12**
Total Production	**5.44**	**5.18**	**5.67**	**4.59**	**4.73**	**5.19**	**5.54**	**5.71**	**5.53**	**5.68**	**5.41**	**5.58**	**64.35**
1982													
Coal	1.49	1.58	1.87	1.64	1.58	1.59	1.35	1.62	1.51	1.58	1.42	1.40	**18.63**
Crude Oil	1.53	1.41	1.56	1.50	1.56	1.50	1.56	1.55	1.51	1.56	1.51	1.55	**18.30**
Natural Gas Liquids	0.19	0.17	0.19	0.18	0.18	0.17	0.18	0.18	0.18	0.18	0.19	0.19	**2.18**
Natural Gas	1.70	1.56	1.65	1.56	1.53	1.48	1.50	1.47	1.41	1.44	1.45	1.49	**18.24**
Hydroelectric	0.28	0.28	0.31	0.29	0.29	0.29	0.29	0.25	0.21	0.21	0.24	0.29	**3.23**
Nuclear Electric	0.28	0.22	0.25	0.24	0.24	0.27	0.28	0.28	0.28	0.26	0.26	0.27	**3.13**
Other Energy	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	**0.12**
Total Production	**5.49**	**5.24**	**5.84**	**5.41**	**5.40**	**5.33**	**5.17**	**5.37**	**5.11**	**5.24**	**5.09**	**5.20**	**63.89**

Total U.S. Energy Production by Source
Quadrillion BTU's

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1983													
Coal	1.38	1.34	1.52	1.36	1.39	1.36	1.22	1.62	1.55	1.58	1.51	1.40	**17.23**
Crude Oil	1.56	1.42	1.56	1.53	1.55	1.51	1.55	1.56	1.53	1.58	1.53	1.51	**18.39**
Natural Gas Liquids	0.19	0.17	0.18	0.17	0.18	0.17	0.18	0.19	0.18	0.19	0.19	0.18	**2.17**
Natural Gas	1.51	1.33	1.38	1.30	1.30	1.25	1.32	1.38	1.34	1.41	1.43	1.58	**16.53**
Hydroelectric	0.31	0.29	0.32	0.32	0.33	0.32	0.30	0.27	0.23	0.22	0.26	0.33	**3.50**
Nuclear Electric	0.27	0.24	0.26	0.24	0.24	0.26	0.28	0.29	0.27	0.28	0.27	0.29	**3.19**
Other Energy	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	**0.12**
Total Production	**5.24**	**4.80**	**5.23**	**4.93**	**5.01**	**4.89**	**4.87**	**5.31**	**5.12**	**5.28**	**5.21**	**5.31**	**61.20**
1984													
Coal	1.50	1.62	1.80	1.60	1.79	1.68	1.65	2.00	1.74	1.54	1.42	1.41	**19.75**
Crude Oil	1.59	1.49	1.56	1.54	1.61	1.54	1.60	1.58	1.57	1.60	1.56	1.60	**18.84**
Natural Gas Liquids	0.19	0.18	0.19	0.19	0.19	0.18	0.19	0.19	0.19	0.20	0.19	0.20	**2.28**
Natural Gas	1.70	1.47	1.52	1.48	1.48	1.43	1.48	1.46	1.39	1.47	1.46	1.59	**17.93**
Hydroelectric	0.31	0.29	0.31	0.31	0.33	0.30	0.28	0.26	0.22	0.22	0.23	0.27	**3.33**
Nuclear Electric	0.32	0.31	0.30	0.26	0.28	0.27	0.31	0.32	0.32	0.27	0.27	0.34	**3.57**
Other Energy	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	**0.18**
Total Production	**5.61**	**5.38**	**5.68**	**5.40**	**5.69**	**5.42**	**5.53**	**5.84**	**5.43**	**5.30**	**5.15**	**5.41**	**65.84**
1985													
Coal	1.49	1.47	1.70	1.67	1.72	1.60	1.51	1.74	1.62	1.75	1.52	1.53	**19.32**
Crude Oil	1.57	1.47	1.64	1.57	1.64	1.57	1.61	1.58	1.56	1.61	1.55	1.62	**18.99**
Natural Gas Liquids	0.19	0.17	0.19	0.18	0.19	0.18	0.19	0.19	0.18	0.19	0.19	0.20	**2.24**
Natural Gas	1.61	1.46	1.46	1.37	1.36	1.31	1.35	1.34	1.32	1.37	1.38	1.59	**16.92**
Hydroelectric	0.29	0.27	0.26	0.26	0.28	0.25	0.22	0.21	0.20	0.21	0.24	0.27	**2.96**
Nuclear Electric	0.39	0.33	0.34	0.29	0.31	0.33	0.38	0.38	0.37	0.34	0.33	0.37	**4.16**
Other Energy	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	**0.22**
Total Production	**5.56**	**5.19**	**5.60**	**5.36**	**5.51**	**5.27**	**5.28**	**5.46**	**5.26**	**5.49**	**5.22**	**5.59**	**64.79**
1986													
Coal	1.72	1.60	1.71	1.65	1.61	1.60	1.49	1.69	1.65	1.70	1.51	1.55	**19.48**
Crude Oil	1.64	1.49	1.62	1.54	1.59	1.50	1.55	1.51	1.45	1.52	1.45	1.50	**18.36**
Natural Gas Liquids	0.20	0.18	0.19	0.18	0.19	0.18	0.18	0.18	0.17	0.17	0.18	0.18	**2.18**
Natural Gas	1.59	1.38	1.47	1.32	1.34	1.28	1.32	1.33	1.26	1.34	1.42	1.53	**16.58**
Hydroelectric	0.22	0.24	0.30	0.29	0.29	0.27	0.25	0.22	0.22	0.22	0.24	0.27	**3.03**
Nuclear Electric	0.39	0.35	0.33	0.33	0.35	0.34	0.39	0.41	0.40	0.39	0.38	0.43	**4.49**
Other Energy	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	**0.24**
Total Production	**5.79**	**5.27**	**5.63**	**5.32**	**5.38**	**5.19**	**5.22**	**5.35**	**5.17**	**5.35**	**5.19**	**5.47**	**64.33**

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration

U.S. Energy Consumption By Type



Source: EIA

Total U.S. Energy Consumption by Source
Quadrillion BTU's

	Coal	Petroleum	Natural Gas	Hydro-electric	Nuclear Electric	Geo-thermal	Other	Total Consumption
1949	11.98	11.88	5.15	1.45	0.00	0.00	NA	**30.46**
1950	12.35	13.32	5.97	1.44	0.00	0.00	0.01	**33.08**
1951	12.55	14.43	7.05	1.45	0.00	0.00	-0.02	**35.47**
1952	11.31	14.96	7.55	1.50	0.00	0.00	-0.01	**35.30**
1953	11.37	15.56	7.91	1.44	0.00	0.00	0.00	**26.27**
1954	9.71	15.84	8.33	1.39	0.00	0.00	0.00	**35.27**
1955	11.17	17.25	9.00	1.41	0.00	0.00	-0.01	**38.82**
1956	11.35	17.94	9.61	1.49	0.00	0.00	-0.01	**40.38**
1957	10.82	17.93	10.19	1.56	0.00	0.00	-0.02	**40.48**
1958	9.53	18.53	10.66	1.63	0.00	0.00	0.00	**40.35**
1959	9.52	19.32	11.72	1.59	0.00	0.00	-0.01	**42.14**
1960	9.84	19.92	12.39	1.66	0.01	0.00	0.00	**43.80**
1961	9.62	20.22	12.93	1.68	0.02	0.00	-0.01	**44.46**
1962	9.91	21.05	13.73	1.82	0.03	0.00	0.00	**46.53**
1963	10.41	21.70	14.40	1.77	0.04	0.00	-0.01	**48.32**
1964	10.96	22.30	15.29	1.91	0.04	0.00	-0.01	**50.50**
1965	11.58	23.25	15.77	2.06	0.04	0.00	-0.02	**52.68**
1966	12.14	24.40	17.00	2.07	0.06	0.00	-0.02	**55.66**
1967	11.91	25.28	17.94	2.34	0.09	0.01	-0.01	**57.57**
1968	12.33	26.98	19.21	2.34	0.14	0.01	-0.01	**61.00**
1969	12.38	28.34	20.68	2.66	0.15	0.01	-0.03	**64.19**
1970	12.26	29.52	21.79	2.65	0.24	0.01	-0.05	**66.43**
1971	11.60	30.56	22.47	2.86	0.41	0.01	-0.03	**67.89**
1972	12.08	32.95	22.70	2.94	0.58	0.03	-0.02	**71.26**
1973	12.97	34.84	22.51	3.01	0.91	0.04	0.00	**74.28**
1974	12.66	33.45	21.73	3.31	1.27	0.05	0.06	**72.54**
1975	12.66	32.73	19.95	3.22	1.90	0.07	0.02	**70.55**
1976	13.58	35.17	20.35	3.07	2.11	0.08	0.00	**74.36**
1977	13.92	37.12	19.93	2.51	2.70	0.08	0.02	**76.29**
1978	13.76	37.97	20.00	3.14	3.02	0.06	0.13	**78.09**
1979	15.04	37.12	20.67	3.14	2.71	0.08	0.07	**78.90**
1980	15.42	34.20	20.39	3.12	2.74	0.11	-0.03	**75.96**
1981	15.91	31.93	19.93	3.11	3.01	0.12	-0.01	**73.99**
1982	15.32	30.23	18.51	3.56	3.13	0.10	-0.02	**70.84**
1983	15.90	30.05	17.36	3.87	3.20	0.13	-0.01	**70.50**
1984	17.07	31.05	18.51	3.72	3.55	0.16	0.00	**74.06**
1985	17.48	30.92	17.85	3.36	4.15	0.20	0.00	**73.96**
1986	17.32	31.89	16.52	3.50	4.48	0.22	0.00	**73.93**

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration

Total U.S. Energy Consumption by Type
Quadrillion BTU's

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1977													
Coal	1.28	1.14	1.14	1.05	1.12	1.18	1.27	1.25	1.15	1.14	1.15	1.22	**14.09**
Petroleum	3.51	3.17	3.11	2.91	2.91	2.99	3.01	3.09	2.94	3.05	3.06	3.43	**37.18**
Natural Gas	2.46	1.85	1.75	1.47	1.41	1.36	1.35	1.39	1.46	1.55	1.72	2.15	**19.92**
Hydroelectric	0.23	0.18	0.22	0.21	0.21	0.20	0.19	0.19	0.19	0.20	0.23	0.26	**2.51**
Nuclear Electric	0.24	0.21	0.22	0.21	0.22	0.23	0.23	0.24	0.21	0.20	0.21	0.26	**2.68**
Other Energy	0.00	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	**0.09**
Net Coal Coke Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	**0.02**
Total Consumption	7.73	6.55	6.45	5.87	5.88	5.97	6.07	6.17	5.96	6.16	6.39	7.33	**76.53**
1978													
Coal	1.24	1.05	1.00	1.04	1.11	1.18	1.26	1.30	1.23	1.19	1.19	1.29	**14.08**
Petroleum	3.37	3.23	3.36	2.94	3.11	3.03	3.02	3.19	2.97	3.15	3.18	3.41	**37.96**
Natural Gas	2.43	2.16	1.93	1.54	1.38	1.25	1.33	1.28	1.25	1.46	1.68	2.10	**19.79**
Hydroelectric	0.28	0.25	0.28	0.28	0.32	0.28	0.27	0.25	0.24	0.22	0.23	0.25	**3.15**
Nuclear Electric	0.28	0.23	0.24	0.19	0.22	0.24	0.27	0.28	0.24	0.25	0.27	0.27	**2.98**
Other Energy	0.01	0.01	0.01	0.02	0.03	0.01	0.02	0.02	0.02	0.02	0.02	0.02	**0.21**
Net Coal Coke Imports	0.00	0.00	0.00	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	**0.10**
Total Consumption	7.61	6.93	6.82	6.01	6.16	5.99	6.18	6.31	5.94	6.29	6.56	7.34	**78.14**
1979													
Coal	1.35	1.21	1.21	1.14	1.20	1.24	1.34	1.34	1.20	1.23	1.24	1.36	**15.06**
Petroleum	3.52	3.29	3.30	2.89	3.05	2.94	2.93	3.12	2.89	3.11	3.04	3.22	**37.30**
Natural Gas	2.46	2.24	1.91	1.62	1.45	1.34	1.35	1.36	1.35	1.58	1.79	2.10	**20.55**
Hydroelectric	0.28	0.24	0.29	0.28	0.32	0.28	0.26	0.24	0.22	0.23	0.25	0.26	**3.15**
Nuclear Electric	0.30	0.28	0.26	0.20	0.16	0.17	0.22	0.26	0.23	0.22	0.21	0.22	**2.73**
Other Energy	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.02	0.01	0.01	0.01	0.01	**0.15**
Net Coal Coke Imports	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	**0.05**
Total Consumption	7.93	7.26	6.99	6.14	6.20	5.99	6.11	6.34	5.90	6.39	6.54	7.16	**78.95**
1980													
Coal	1.41	1.32	1.31	1.17	1.17	1.25	1.40	1.39	1.27	1.24	1.26	1.41	**15.60**
Petroleum	3.18	3.00	2.96	2.76	2.75	2.67	2.72	2.68	2.73	2.88	2.75	3.13	**34.21**
Natural Gas	2.33	2.24	2.14	1.60	1.38	1.28	1.33	1.27	1.33	1.57	1.82	2.20	**20.49**
Hydroelectric	0.28	0.24	0.27	0.29	0.32	0.31	0.28	0.23	0.21	0.21	0.22	0.25	**3.11**
Nuclear Electric	0.21	0.21	0.22	0.20	0.20	0.20	0.23	0.26	0.25	0.26	0.23	0.24	**2.71**
Other Energy	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.01	0.01	**0.07**
Net Coal Coke Imports	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	**-0.02**
Total Consumption	7.42	7.02	6.91	6.02	5.83	5.71	5.96	5.85	5.80	6.17	6.29	7.23	**76.21**
1981													
Coal	1.47	1.30	1.31	1.19	1.20	1.30	1.47	1.44	1.30	1.29	1.28	1.42	**15.97**
Petroleum	3.11	2.59	2.69	2.51	2.59	2.63	2.65	2.58	2.56	2.67	2.55	2.80	**31.93**
Natural Gas	2.34	1.94	1.95	1.53	1.46	1.34	1.35	1.35	1.30	1.56	1.66	2.13	**19.91**
Hydroelectric	0.26	0.25	0.24	0.24	0.28	0.30	0.29	0.25	0.21	0.22	0.23	0.28	**3.05**
Nuclear Electric	0.26	0.24	0.24	0.22	0.21	0.23	0.25	0.29	0.27	0.22	0.25	0.28	**2.96**
Other Energy	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	**0.12**
Net Coal Coke Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
Total Consumption	7.46	6.33	6.44	5.71	5.76	5.82	6.02	5.92	5.65	5.97	5.97	6.92	**73.97**

Total U.S. Energy Consumption by Type
Quadrillion BTU's

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1982													
Coal	1.49	1.29	1.26	1.15	1.19	1.21	1.38	1.38	1.23	1.19	1.23	1.30	**15.30**
Petroleum	2.72	2.44	2.63	2.62	2.51	2.45	2.50	2.51	2.45	2.51	2.45	2.62	**30.41**
Natural Gas	2.43	2.01	1.86	1.51	1.17	1.14	1.18	1.18	1.17	1.33	1.58	1.76	**18.32**
Hydroelectric	0.31	0.30	0.33	0.31	0.32	0.31	0.31	0.28	0.24	0.24	0.28	0.32	**3.55**
Nuclear Electric	0.28	0.22	0.25	0.24	0.24	0.27	0.28	0.28	0.28	0.26	0.26	0.27	**3.13**
Other Energy	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	**0.11**
Net Coal Coke Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
Total Consumption	7.26	6.29	6.36	5.85	5.41	5.37	5.64	5.62	5.37	5.54	5.82	6.29	**70.82**
1983													
Coal	1.36	1.18	1.20	1.14	1.17	1.26	1.50	1.57	1.37	1.30	1.32	1.52	**15.89**
Petroleum	2.47	2.24	2.60	2.38	2.43	2.48	2.52	2.59	2.51	2.51	2.51	2.80	**30.04**
Natural Gas	2.04	1.69	1.64	1.42	1.15	1.00	1.07	1.15	1.10	1.28	1.55	2.26	**17.35**
Hydroelectric	0.34	0.32	0.35	0.34	0.35	0.35	0.33	0.31	0.27	0.26	0.29	0.37	**3.88**
Nuclear Electric	0.27	0.24	0.26	0.24	0.24	0.26	0.28	0.29	0.27	0.28	0.27	0.29	**3.19**
Other Energy	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	**0.12**
Net Coal Coke Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
Total Consumption	6.48	5.68	6.06	5.53	5.35	5.36	5.70	5.92	5.54	5.65	5.97	7.25	**70.49**
1984													
Coal	1.55	1.36	1.40	1.27	1.30	1.44	1.52	1.59	1.38	1.40	1.39	1.47	**17.07**
Petroleum	2.81	2.42	2.68	2.52	2.61	2.54	2.59	2.70	2.47	2.61	2.53	2.57	**31.05**
Natural Gas	2.41	2.02	1.90	1.65	1.39	1.21	1.19	1.19	1.12	1.22	1.44	1.79	**18.53**
Hydroelectric	0.34	0.32	0.34	0.34	0.36	0.33	0.32	0.30	0.25	0.26	0.26	0.30	**3.72**
Nuclear Electric	0.32	0.31	0.30	0.26	0.28	0.27	0.31	0.32	0.32	0.27	0.27	0.34	**3.57**
Other Energy	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	**0.14**
Net Coal Coke Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
Total Consumption	7.44	6.43	6.64	6.06	5.95	5.81	5.94	6.11	5.55	5.76	5.90	6.48	**74.07**
1985													
Coal	1.60	1.41	1.39	1.32	1.39	1.43	1.59	1.56	1.43	1.39	1.39	1.60	**17.50**
Petroleum	2.69	2.43	2.57	2.50	2.59	2.50	2.58	2.68	2.44	2.66	2.50	2.77	**30.91**
Natural Gas	2.17	2.22	1.78	1.50	1.19	1.11	1.16	1.16	1.08	1.19	1.36	1.97	**17.89**
Hydroelectric	0.32	0.30	0.30	0.29	0.31	0.29	0.27	0.26	0.23	0.25	0.27	0.30	**3.39**
Nuclear Electric	0.39	0.33	0.34	0.29	0.31	0.33	0.38	0.38	0.37	0.34	0.33	0.37	**4.16**
Other Energy	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	**0.20**
Net Coal Coke Imports	0.00	-0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
Total Consumption	7.19	6.70	6.38	5.90	5.79	5.68	5.98	6.05	5.56	5.84	5.87	7.03	**73.97**
1986													
Coal	1.63	1.41	1.38	1.27	1.32	1.46	1.65	1.52	1.40	1.36	1.37	1.50	**17.27**
Petroleum	2.67	2.43	2.72	2.56	2.66	2.60	2.70	2.80	2.56	2.76	2.61	2.84	**31.91**
Natural Gas	2.18	1.92	1.76	1.37	1.19	1.06	1.05	1.01	0.96	1.04	1.28	1.72	**16.54**
Hydroelectric	0.26	0.28	0.33	0.32	0.32	0.30	0.29	0.27	0.26	0.27	0.28	0.31	**3.49**
Nuclear Electric	0.39	0.35	0.33	0.33	0.35	0.34	0.39	0.41	0.40	0.39	0.38	0.43	**4.49**
Other Energy	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	**0.23**
Net Coal-Coke Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	**-0.01**
Total Consumption	7.15	6.42	6.54	5.85	5.85	5.78	6.10	6.02	5.60	5.83	5.93	6.81	**73.88**

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration

Total U.S. Energy Consumption by Sector
Quadrillion BTU's

	Residential and Commercial	Industrial	Transportation	Total All Sectors*	Electric Utilities
1949	8.21	14.26	7.99	30.46	4.36
1950	8.87	15.71	8.49	33.08	4.70
1951	9.30	17.13	9.04	35.47	5.09
1952	9.54	16.76	9.00	35.30	5.36
1953	9.50	17.65	9.12	36.27	5.75
1954	9.78	16.58	8.90	35.27	5.80
1955	10.41	18.86	9.55	38.82	6.50
1956	10.96	19.55	9.86	40.38	6.98
1957	10.98	19.60	9.90	40.48	7.26
1958	11.64	18.70	10.00	40.35	7.22
1959	12.15	19.64	10.35	42.14	7.82
1960	13.04	20.16	10.60	43.80	8.19
1961	13.44	20.25	10.77	44.46	8.47
1962	14.27	21.05	11.22	46.53	9.03
1963	14.71	21.96	11.65	48.32	9.63
1964	15.23	23.27	11.99	50.50	10.33
1965	16.03	24.23	12.42	52.68	11.01
1966	17.06	25.51	13.09	55.55	11.99
1967	18.10	25.74	13.73	57.57	12.70
1968	19.23	26.92	14.84	61.00	13.88
1969	20.59	28.12	15.48	64.19	15.18
1970	21.71	28.65	16.07	66.43	16.27
1971	22.59	28.59	16.70	67.89	17.15
1972	23.69	29.88	17.70	71.26	18.52
1973	24.14	31.53	18.60	74.28	19.85
1974	23.72	30.70	18.11	72.54	20.02
1975	23.90	28.41	18.24	70.55	20.35
1976	25.02	30.24	19.09	74.36	21.57
1977	25.39	31.09	19.81	76.29	22.71
1978	26.09	31.41	20.59	78.09	23.72
1979	25.81	32.62	20.47	78.90	24.13
1980	25.65	30.61	19.69	75.96	24.50
1981	25.24	29.25	19.50	73.99	24.76
1982	25.62	26.14	19.07	70.84	24.26
1983	25.62	25.75	19.14	70.50	24.93
1984	26.42	27.77	19.88	74.06	25.94
1985	26.82	27.02	20.12	73.96	26.48
1986	27.25	25.98	20.69	73.93	26.79

* Consumption by electric utilities is apportioned to each end use sector.

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration

Total U.S. Energy Consumption by Sector
Quadrillion BTU's

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1976													
Residential & Commercial	3.12	2.69	2.43	2.08	1.91	1.86	1.97	1.97	1.83	1.94	2.37	3.00	**27.17**
Industrial	2.43	2.11	2.20	2.07	2.20	2.24	2.29	2.27	2.22	2.58	2.59	2.72	**27.92**
Transportation	1.65	1.48	1.64	1.59	1.56	1.61	1.64	1.60	1.57	1.61	1.65	1.81	**19.41**
Total All Sectors *	7.20	6.28	6.27	5.74	5.67	5.70	5.90	5.84	5.62	6.13	6.61	7.53	**74.49**
1977													
Residential & Commercial	3.35	2.90	2.45	2.05	1.88	1.93	2.08	2.07	1.92	1.96	2.16	2.80	**27.55**
Industrial	2.64	2.05	2.34	2.18	2.38	2.38	2.32	2.40	2.42	2.54	2.57	2.71	**28.93**
Transportation	1.75	1.60	1.67	1.64	1.62	1.66	1.68	1.70	1.62	1.66	1.65	1.82	**20.07**
Total All Sectors	7.73	6.55	6.45	5.87	5.88	5.97	6.07	6.17	5.96	6.16	6.39	7.33	**76.53**
1978													
Residential & Commercial	3.21	3.06	2.79	2.18	2.05	1.99	2.12	2.12	1.98	2.00	2.23	2.81	**28.54**
Industrial	2.69	2.24	2.23	2.19	2.36	2.29	2.37	2.41	2.33	2.57	2.60	2.71	**28.99**
Transportation	1.72	1.63	1.79	1.63	1.75	1.71	1.69	1.78	1.63	1.72	1.73	1.82	**20.60**
Total All Sectors	7.61	6.93	6.82	6.01	6.16	5.99	6.18	6.31	5.94	6.29	6.56	7.34	**78.14**
1979													
Residential & Commercial	3.42	3.24	2.81	2.30	2.07	1.99	2.10	2.20	2.00	2.10	2.32	2.77	**29.32**
Industrial	2.73	2.34	2.42	2.26	2.47	2.40	2.42	2.46	2.35	2.63	2.63	2.72	**29.83**
Transportation	1.78	1.68	1.75	1.58	1.66	1.60	1.59	1.68	1.55	1.65	1.59	1.67	**19.78**
Total All Sectors	7.93	7.26	6.99	6.14	6.20	5.99	6.11	6.34	5.90	6.39	6.54	7.16	**78.95**
1980													
Residential & Commercial	2.86	2.82	2.64	2.10	1.86	1.88	2.10	2.08	1.94	1.92	2.10	2.71	**27.01**
Industrial	2.89	2.59	2.64	2.35	2.41	2.31	2.27	2.22	2.34	2.63	2.68	2.82	**30.15**
Transportation	1.68	1.61	1.63	1.58	1.57	1.52	1.58	1.54	1.51	1.61	1.50	1.70	**19.03**
Total All Sectors	7.42	7.02	6.91	6.02	5.83	5.71	5.96	5.85	5.80	6.17	6.29	7.23	**76.21**
1981													
Residential & Commercial	3.15	2.64	2.32	1.83	1.70	1.76	1.90	1.84	1.66	1.81	1.99	2.61	**25.21**
Industrial	2.65	2.22	2.51	2.28	2.42	2.39	2.42	2.42	2.39	2.52	2.42	2.63	**29.27**
Transportation	1.66	1.47	1.61	1.60	1.63	1.66	1.70	1.65	1.60	1.64	1.57	1.68	**19.47**
Total All Sectors	7.46	6.33	6.44	5.71	5.76	5.82	6.02	5.92	5.65	5.97	5.97	6.92	**73.97**
1982													
Residential & Commercial	3.19	2.75	2.47	2.11	1.72	1.67	1.88	1.87	1.76	1.74	1.97	2.50	**25.63**
Industrial	2.54	2.10	2.27	2.12	2.08	2.09	2.12	2.14	2.03	2.23	2.26	2.15	**26.13**
Transportation	1.51	1.44	1.62	1.72	1.65	1.61	1.63	1.61	1.57	1.58	1.57	1.60	**19.11**
Total All Sectors	7.26	6.29	6.36	5.85	5.41	5.37	5.64	5.62	5.37	5.54	5.82	6.29	**70.82**

Total U.S. Energy Consumption by Sector
Quadrillion BTU's

	January	February	March	April	May	June	July	August	September	October	November	December	Annual* Total
1983													
Residential & Commercial	2.84	2.56	2.36	2.11	1.75	1.73	1.97	2.06	1.81	1.71	1.96	2.75	**25.61**
Industrial	2.13	1.75	2.04	1.88	2.01	1.99	2.08	2.18	2.13	2.32	2.45	2.78	**25.74**
Transportation	1.50	1.38	1.66	1.54	1.60	1.64	1.65	1.67	1.60	1.62	1.56	1.71	**19.13**
Total All Sectors	6.48	5.68	6.06	5.53	5.35	5.36	5.70	5.92	5.54	5.65	5.97	7.25	**70.49**
1984													
Residential & Commercial	3.30	2.65	2.56	2.11	1.88	1.83	1.95	2.00	1.78	1.78	2.02	2.55	**26.41**
Industrial	2.55	2.30	2.45	2.33	2.37	2.28	2.26	2.31	2.15	2.28	2.24	2.26	**27.78**
Transportation	1.60	1.48	1.64	1.62	1.71	1.70	1.73	1.79	1.62	1.70	1.64	1.66	**19.89**
Total All Sectors	7.44	6.43	6.64	6.06	5.95	5.81	5.94	6.11	5.55	5.76	5.90	6.48	**74.07**
1985													
Residential & Commercial	3.08	2.98	2.45	2.02	1.79	1.82	2.01	2.01	1.85	1.86	2.04	2.90	**26.81**
Industrial	2.49	2.23	2.26	2.21	2.27	2.18	2.21	2.24	2.09	2.25	2.19	2.41	**27.03**
Transportation	1.61	1.49	1.67	1.68	1.74	1.68	1.76	1.80	1.62	1.73	1.64	1.72	**20.14**
Total All Sectors	7.19	6.70	6.38	5.90	5.79	5.68	5.98	6.05	5.56	5.84	5.87	7.03	**73.97**
1986													
Residential & Commercial	3.14	2.74	2.52	2.01	1.88	1.92	2.18	2.07	1.89	1.92	2.17	2.81	**27.25**
Industrial	2.40	2.19	2.30	2.14	2.21	2.12	2.06	2.08	2.03	2.12	2.09	2.21	**25.95**
Transportation	1.62	1.49	1.73	1.71	1.76	1.74	1.86	1.86	1.68	1.79	1.67	1.79	**20.70**
Total All Sectors	7.15	6.42	6.54	5.85	5.85	5.78	6.10	6.02	5.60	5.83	5.93	6.81	**73.88**

* Consumption by electric utilities is apportioned back to end use sectors.

Data from Oil & Gas Journal Energy Database
Source: Energy Information Administration

Estimated Annual Energy Consumption Growth Rates
Pre- and Post- Embargo

	Total Energy Use		Per Capita Energy Use	
	1960-1973	1973-1985	1960-1973	1973-1985
Alabama	4.6	-0.5	3.9	-1.4
Alaska	9.4	7.2	6.3	3.2
Arizona	7.0	1.8	3.1	-1.6
Arkansas	5.6	-0.3	4.5	-1.4
California	4.4	0.6	2.2	-1.4
Colorado	5.1	0.9	2.4	-1.3
Connecticut	3.0	-0.5	1.6	-0.7
Delaware	3.9	-1.1	1.9	-1.7
Dist. of Columbia	2.1	-3.4	2.4	-2.1
Florida	7.3	2.3	3.6	-0.7
Georgia	6.8	1.5	5.0	-0.1
Hawaii	6.8	0.2	4.5	-1.5
Idaho	4.7	-0.5	3.4	-1.6
Illinois	3.7	-1.2	2.8	-1.4
Indiana	3.9	-0.6	2.8	-0.9
Iowa	3.7	-0.4	3.4	-0.4
Kansas	3.4	-0.4	3.1	-0.3
Kentucky	3.3	-0.2	2.5	-1.1
Louisiana	6.1	0.0	4.9	-1.4
Maine	4.4	-1.0	3.8	-1.8
Maryland	4.5	-0.4	2.3	-0.9
Massachusetts	3.3	-1.8	2.4	-1.8
Michigan	4.0	-1.3	2.9	-1.3
Minnesota	4.5	-0.1	3.5	-0.7
Mississippi	6.7	-0.1	6.1	-1.0
Missouri	3.8	0.5	3.0	0.0
Montana	3.4	0.2	2.8	-0.9
Nebraska	4.2	-0.4	3.6	-0.7
Nevada	7.7	2.4	2.3	-1.8
New Hampshire	5.5	-0.1	3.3	-1.9
New Jersey	4.1	-0.1	2.6	-0.3
New Mexico	2.8	-0.2	1.7	-2.5
New York	3.1	-2.2	2.5	-2.0
North Carolina	5.4	1.0	4.0	-0.2
North Dakota	2.0	3.7	2.0	3.0
Ohio	2.7	-1.3	1.9	-1.3
Oklahoma	4.6	2.3	3.4	0.6
Oregon	5.1	0.0	3.3	-1.5
Pennsylvania	2.2	-2.2	1.8	-2.1
Rhode Island	1.6	-1.2	0.6	-1.2
South Carolina	5.1	1.3	3.9	-0.2
South Dakota	2.5	0.7	2.5	0.4
Tennessee	4.2	0.3	3.0	-0.8
Texas	4.7	0.9	2.9	-1.7
Utah	3.4	1.3	1.3	-1.5
Vermont	5.4	-0.3	3.9	-1.4
Virginia	4.4	1.2	2.7	-0.1
Washington	5.1	1.4	3.5	-0.6
West Virginia	3.2	-1.7	3.4	-2.3
Wisconsin	3.7	-0.2	2.7	-0.6
Wyoming	5.4	1.9	4.9	-1.1
Total U.S.	**4.1**	**0.0**	**2.9**	**-1.0**

Source: Energy Information Administration

Energy Consumption by Source and End-Use Sector
By State, 1985
Trillion BTU

	Sources								End Use Sectors			
	Total Energy	Coal	Natural Gas	Petroleum	Nuclear	Hydro-electric	Other	Electricity Exchanges*	Resi-dential	Commer-cial	Indus-trial	Transpor-tation
Alabama	1,393	663	228	453	155	71	0	-177	252	173	633	335
Alaska	448	5	215	220	0	8	(s)	0	43	51	200	154
Arizona	821	345	136	317	12	145	0	-134	170	157	200	293
Arkansas	762	220	199	303	107	46	0	-112	155	104	299	204
California	6,358	43	1,896	3,098	213	370	196	542	1,219	1,038	1,692	2,409
Colorado	884	300	223	333	(s)	24	(s)	5	219	215	174	276
Connecticut	691	21	81	437	138	3	0	12	199	160	136	196
Delaware	205	74	39	120	0	0	0	-25	37	27	86	56
Dist. of Columbia	165	4	29	39	0	0	0	92	35	70	30	30
Florida	2,553	467	302	1,298	254	3	(s)	229	647	533	425	949
Georgia	1,771	727	290	754	109	29	0	-138	355	253	574	589
Hawaii	232	0	3	228	0	1	1	0	21	19	47	145
Idaho	347	9	41	106	0	113	0	78	80	70	118	80
Illinois	3,469	801	989	1,138	423	1	0	117	839	673	1,229	728
Indiana	2,289	1,192	436	748	0	4	0	-91	412	243	1,116	518
Iowa	920	268	227	341	21	21	1	41	226	148	326	220
Kansas	1,007	260	355	396	42	(s)	(s)	-46	181	153	404	269
Kentucky	1,192	713	183	465	0	30	0	-198	254	170	447	321
Louisiana	3,185	159	1,446	1,352	27	0	0	201	288	250	2,051	596
Maine	304	2	3	193	58	35	0	14	73	41	96	94
Maryland	1,129	264	156	467	107	16	(s)	119	274	152	387	316
Massachusetts	1,240	111	224	762	66	47	0	30	362	274	221	382
Michigan	2,612	785	745	854	145	14	0	68	679	407	913	612
Minnesota	1,224	228	259	495	125	38	(s)	79	302	186	402	333
Mississippi	815	109	233	337	47	0	0	88	155	103	304	254
Missouri	1,477	521	259	579	87	31	0	(s)	399	259	390	429
Montana	347	99	47	160	0	106	1	-66	64	55	145	82
Nebraska	497	115	124	195	45	15	0	4	125	105	127	141
Nevada	306	126	42	136	0	45	0	-43	65	41	89	112
New Hampshire	200	39	11	122	0	21	0	7	61	28	49	63
New Jersey	2,134	101	392	1,215	192	-3	0	236	464	379	501	790
New Mexico	458	268	159	217	0	1	0	-187	67	70	159	162
New York	3,372	305	795	1,604	260	460	(s)	-51	913	912	702	845
North Carolina	1,681	555	139	665	209	42	0	71	382	264	542	492
North Dakota	301	307	29	119	0	50	(s)	-204	55	33	145	69
Ohio	3,588	1,394	764	1,129	21	2	3	275	789	521	1,524	755
Oklahoma	1,339	237	612	466	0	41	0	-18	267	198	532	341
Oregon	804	10	86	316	75	474	0	-157	197	142	220	246
Pennsylvania	3,271	1,364	658	1,197	284	10	0	-240	791	461	1,257	761
Rhode Island	195	(s)	31	109	0	4	0	-51	60	38	47	51
South Carolina	994	258	101	346	344	19	0	-74	191	138	400	265
South Dakota	192	34	25	98	0	55	0	-22	51	28	47	65
Tennessee	1,639	588	197	562	105	68	0	119	350	271	585	432
Texas	8,924	1,171	3,521	4,099	0	14	3	115	1,072	927	4,888	2,037
Utah	529	204	124	185	0	11	2	3	115	62	219	133
Vermont	115	2	5	64	32	13	3	-4	36	18	24	37
Virginia	1,596	304	145	671	241	9	0	227	366	310	419	500
Washington	1,682	94	140	586	87	806	3	-33	400	310	552	421
West Virginia	735	882	129	247	0	11	0	-534	124	78	378	154
Wisconsin	1,292	365	311	455	119	26	1	16	344	226	411	311
Wyoming	351	408	87	128	0	11	(s)	-283	40	36	205	70
Total U.S.	74,023	17,520	17,869	30,925	4,147	3,363	213		15,263	11,582	27,056	20,122

(s) Less than 0.5
* Net interstate sales of electricity.

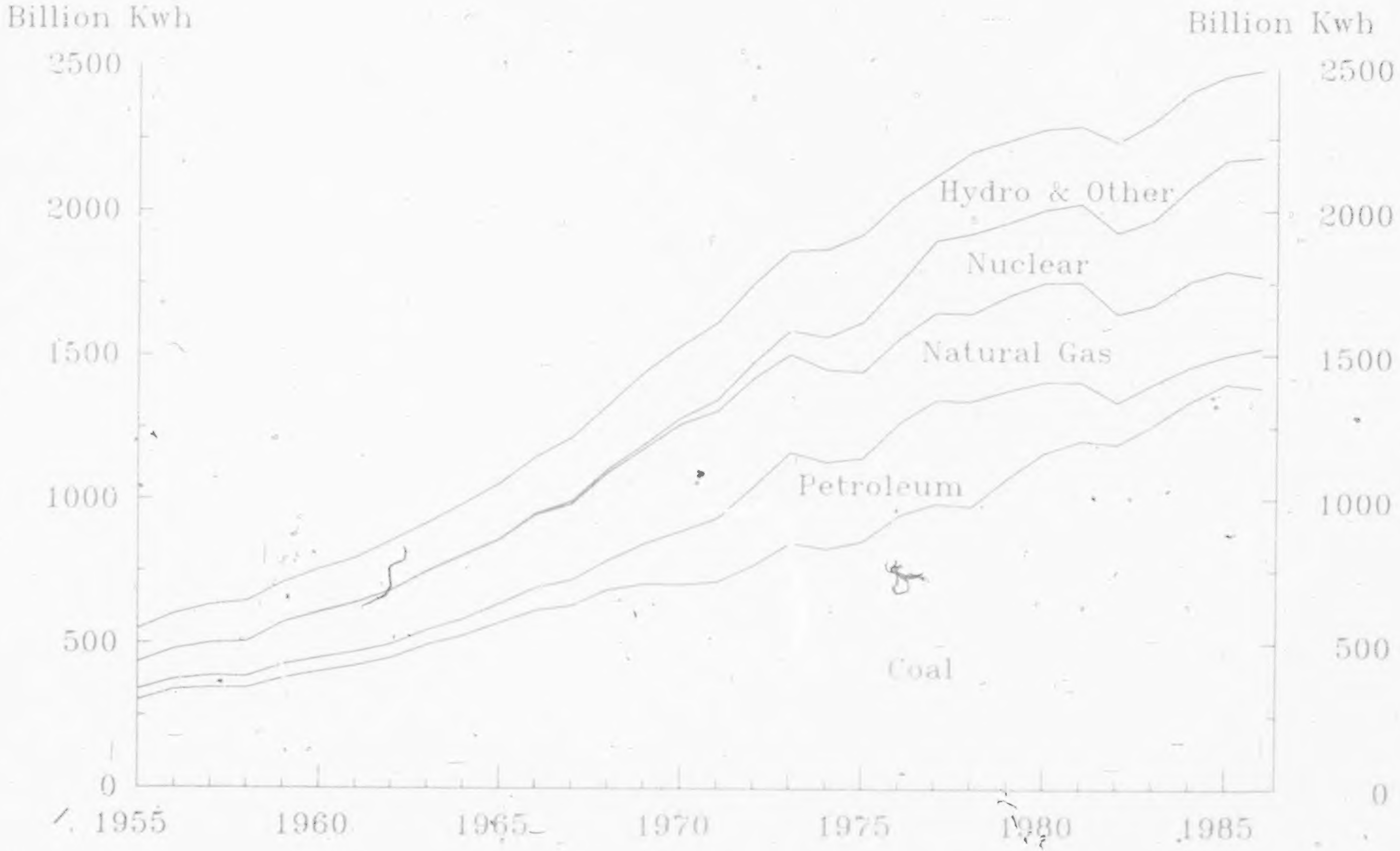
Source: Energy Information Administration

Total U.S. Installed Electric Nameplate Capacity
Millions of kilowatts

	Conventional Steam	Internal Combustion	Gas Turbine	Nuclear Power	Hydroelectric Power	Geothermal & Other	Total Capacity
1949	43.2	1.7	NA	NA	18.5	NA	**63.4**
1950	48.2	1.8	NA	NA	19.2	NA	**69.2**
1951	53.1	1.9	NA	NA	20.5	NA	**75.5**
1952	58.8	2.0	NA	NA	22.4	NA	**83.2**
1953	67.5	2.1	NA	NA	23.8	NA	**93.3**
1954	75.4	2.2	NA	NA	22.5	NA	**100.0**
1955	84.6	2.3	NA	NA	27.4	NA	**114.2**
1956	88.8	2.4	NA	NA	28.5	NA	**119.7**
1957	97.9	2.3	NA	0.1	30.7	NA	**131.1**
1958	108.2	2.4	NA	0.1	32.5	NA	**143.3**
1959	118.5	2.5	NA	0.1	34.8	NA	**155.9**
1960	128.3	2.6	NA	0.4	35.8	NA	**167.1**
1961	135.1	2.8	NA	0.4	40.7	NA	**179.0**
1962	144.6	2.8	NA	0.7	44.0	NA	**192.1**
1963	158.4	3.0	0.5	0.8	47.0	NA	**209.7**
1964	169.6	3.1	0.8	0.9	49.4	NA	**223.7**
1965	178.7	3.2	1.1	0.8	51.0	NA	**234.8**
1966	189.6	3.3	1.6	1.7	51.2	NA	**247.5**
1967	202.5	3.6	2.8	2.7	55.0	0.1	**266.7**
1968	214.3	3.8	5.3	2.7	57.9	0.1	**284.0**
1969	231.4	4.0	8.4	4.4	61.6	0.1	**309.8**
1970	248.0	4.1	13.3	7.0	63.9	0.1	**336.4**
1971	266.0	4.2	17.9	9.0	69.1	0.2	**366.4**
1972	282.3	4.5	23.9	14.5	70.5	0.3	**396.0**
1973	307.9	4.7	28.8	22.6	75.4	0.4	**439.8**
1974	322.4	4.7	33.7	31.8	75.5	0.4	**468.5**
1975	333.3	4.8	37.1	37.2	78.4	0.5	**491.3**
1976	350.9	5.0	39.1	43.7	78.0	0.5	**517.2**
1977	365.3	5.0	40.3	46.2	78.6	0.5	**535.9**
1978	374.5	5.2	41.2	50.7	79.9	0.5	**552.1**
1979	384.6	5.2	42.5	49.6	82.9	0.7	**565.5**
1980	396.6	5.2	42.5	51.7	81.7	0.9	**578.6**
1981	410.7	5.3	43.2	55.9	82.4	0.9	**598.3**
1982	421.4	4.8	43.5	59.9	83.0	1.1	**613.7**
1983	424.9	4.7	43.3	63.0	83.9	1.2	**621.1**
1984	430.8	4.5	43.5	69.7	85.3	1.3	**635.1**
1985	436.8	4.7	43.9	79.4	88.9	1.6	**655.2**
1986	441.2	4.7	43.6	85.2	89.3	1.6	**665.5**

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

Electric Power Production by Source



Source: BOM, EIA

Total U.S. Electric Power Production
Billions of kilowatt hours

	From Coal	From Petroleum	From Natural Gas	By Nuclear	By Hydropower	By Geothermal & Other	Total Production
1952	195	30	68	0	105	0	399
1953	219	38	80	0	105	0	443
1954	239	32	94	0	107	0	472
1955	301	37	95	0	113	0	547
1956	339	36	104	0	122	0	601
1957	346	40	114	0	130	0	632
1958	344	40	120	0	140	0	645
1959	378	47	147	0	138	0	710
1960	403	46	158	1	146	0	756
1961	422	47	169	2	152	0	794
1962	450	47	184	2	169	0	855
1963	494	52	202	3	166	0	917
1964	526	57	220	3	177	0	984
1965	571	65	222	4	194	0	1,055
1966	613	79	251	6	195	1	1,144
1967	630	89	265	8	222	1	1,214
1968	685	104	304	13	222	1	1,329
1969	706	138	333	14	250	1	1,442
1970	704	184	373	22	248	1	1,532
1971	713	220	374	38	266	1	1,613
1972	771	274	376	54	273	2	1,750
1973	848	314	341	83	272	2	1,861
1974	828	301	320	114	301	3	1,867
1975	853	289	300	173	300	3	1,918
1976	944	320	295	191	284	4	2,038
1977	985	358	306	251	220	4	2,124
1978	976	365	305	276	280	3	2,206
1979	1,075	304	329	255	280	4	2,247
1980	1,162	246	346	251	276	6	2,286
1981	1,203	206	346	273	261	6	2,295
1982	1,192	147	305	283	309	5	2,241
1983	1,259	144	274	294	332	6	2,310
1984	1,342	120	297	328	321	9	2,416
1985	1,402	100	292	384	281	11	2,470
1986	1,388	137	248	414	291	12	2,489

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Total U.S. Sales of Electricity
Billions of kilowatt hours

	Residential Sector	Commercial Sector	Industrial Sector	Other Sectors	Total Sales
1949	67	45	123	20	255
1950	72	51	146	22	291
1951	83	57	166	24	330
1952	94	62	176	24	356
1953	104	67	199	26	396
1954	116	72	208	27	424
1955	128	79	260	29	497
1956	143	87	286	30	546
1957	157	94	294	31	576
1958	169	100	287	32	588
1959	185	112	315	36	647
1960	201	131	324	32	688
1961	214	138	337	32	722
1962	233	153	360	32	778
1963	251	171	377	34	833
1964	272	187	405	32	896
1965	291	200	429	34	954
1966	317	218	464	37	1,035
1967	340	234	485	40	1,099
1968	382	258	521	42	1,203
1969	427	282	559	46	1,314
1970	466	307	571	48	1,392
1971	500	329	589	51	1,470
1972	539	359	641	56	1,595
1973	579	388	686	59	1,713
1974	578	385	685	58	1,706
1975	588	403	668	68	1,747
1976	606	425	754	70	1,855
1977	645	447	786	71	1,948
1978	674	461	809	73	2,018
1979	683	473	842	73	2,071
1980	717	488	815	74	2,094
1981	722	514	826	85	2,147
1982	730	526	745	86	2,086
1983	751	544	776	80	2,151
1984	780	577	839	89	2,285
1985	794	605	835	92	2,326
1986	826	647	818	87	2,377

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Mines, Energy Information Administration

U.S. Sales of Electricity
Total U.S., by Sector
Millions of kilowatt hours

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1975													
Residential	54,003	50,219	47,968	44,762	41,077	45,766	54,586	57,291	54,362	45,142	44,019	51,900	**591,095**
Commercial	32,405	31,459	31,194	30,473	30,926	35,210	38,031	38,576	37,325	33,329	32,288	33,183	**404,399**
Industrial	55,505	54,328	54,437	53,910	54,767	55,369	55,645	57,868	58,405	56,486	56,174	55,532	**668,426**
Other	5,954	5,544	5,639	5,269	5,404	5,384	5,668	5,709	5,978	5,194	5,235	5,357	**66,335**
Total Sales	**147,867**	**141,550**	**139,238**	**134,414**	**132,174**	**141,729**	**153,930**	**159,444**	**156,070**	**140,151**	**137,716**	**145,972**	**1,730,255**
1976													
Residential	60,091	54,264	47,060	43,551	41,036	44,157	54,314	57,256	53,460	47,296	48,582	56,893	**607,960**
Commercial	34,833	33,583	32,273	31,598	32,347	35,707	39,455	39,517	38,503	36,667	35,760	36,916	**427,159**
Industrial	57,448	58,228	60,516	60,106	61,271	62,419	62,877	64,184	64,333	62,371	61,511	61,956	**737,220**
Other	6,380	5,874	5,990	5,407	5,478	5,344	5,895	5,835	6,134	5,873	5,977	6,084	**70,271**
Total Salcs	**158,752**	**151,949**	**145,839**	**140,662**	**140,132**	**147,627**	**162,541**	**166,792**	**162,430**	**152,207**	**151,830**	**161,849**	**1,842,610**
1977													
Residential	65,332	61,423	50,859	44,414	41,568	48,419	60,969	62,282	57,248	48,741	44,959	54,919	**641,133**
Commercial	37,598	36,105	34,248	33,180	34,291	37,658	41,863	42,483	41,062	36,655	34,075	35,714	**444,932**
Industrial	61,481	60,439	63,294	63,278	65,418	66,064	64,622	66,300	66,362	66,295	64,833	63,906	**772,292**
Other	6,274	5,770	6,158	5,425	5,613	5,601	5,931	5,831	5,948	5,982	5,887	6,068	**70,488**
Total Sales	**170,685**	**163,737**	**154,559**	**146,297**	**146,890**	**157,742**	**173,385**	**176,896**	**170,620**	**157,673**	**149,754**	**160,606**	**1,928,844**
1978													
Residential	65,455	64,140	58,391	47,118	43,748	50,511	61,327	63,483	61,585	50,765	46,720	56,391	**669,634**
Commercial	38,125	37,465	36,282	33,625	33,995	39,080	42,839	43,499	42,666	37,944	35,476	37,244	**458,240**
Industrial	64,195	60,823	61,506	63,103	66,618	68,563	67,081	70,419	70,170	70,396	68,815	67,577	**799,266**
Other	6,581	6,274	6,032	5,355	5,586	5,826	6,359	6,139	6,432	6,057	6,332	6,268	**73,241**
Total Sales	**174,356**	**168,703**	**162,212**	**149,201**	**149,947**	**163,981**	**177,607**	**183,540**	**180,853**	**165,162**	**157,341**	**167,497**	**2,000,400**
1979													
Residential	69,939	67,842	59,314	50,079	45,730	49,556	58,606	64,808	59,251	49,430	49,480	58,437	**682,472**
Commercial	40,362	39,865	38,123	35,930	36,398	39,689	42,773	44,199	42,416	38,750	36,656	37,952	**473,113**
Industrial	68,324	67,632	69,783	69,944	71,798	71,919	70,984	71,956	70,075	71,444	69,787	67,283	**840,929**
Other	6,762	6,176	6,029	5,604	5,625	5,696	5,976	6,346	6,479	6,098	6,173	6,142	**73,106**
Total Sales	**185,387**	**181,515**	**173,249**	**161,557**	**159,551**	**166,860**	**178,339**	**187,310**	**178,220**	**165,721**	**162,096**	**169,815**	**2,069,620**
1980													
Residential	65,841	64,514	60,497	51,749	45,699	52,267	68,611	74,893	67,969	54,012	50,539	60,775	**717,366**
Commercial	39,578	39,528	38,762	36,453	36,110	40,129	45,525	47,679	46,028	40,478	37,954	39,846	**488,070**
Industrial	67,532	68,508	69,086	67,908	67,235	66,739	65,531	67,377	69,570	69,414	67,613	68,517	**815,030**
Other	6,634	6,171	6,028	5,591	5,807	5,737	6,215	6,255	6,572	6,174	6,068	6,469	**73,721**
Total Sales	**179,585**	**178,720**	**174,373**	**161,702**	**154,851**	**164,872**	**185,882**	**196,205**	**190,139**	**170,078**	**162,174**	**175,607**	**2,094,188**

U.S. Sales of Electricity
Total U.S.
Millions of kilowatt hours

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
1981													
Residential	74,087	66,359	57,660	50,914	48,348	56,165	69,990	70,299	61,098	52,989	51,965	62,391	**722,265**
Commercial	43,229	41,345	39,541	37,910	39,331	44,244	48,989	49,003	46,977	42,183	39,747	41,839	**514,338**
Industrial	67,076	67,411	68,590	68,138	68,714	71,641	71,712	72,010	71,011	63,154	66,161	64,124	**825,742**
Other	7,557	7,092	7,035	6,562	6,780	6,777	7,124	7,147	7,164	7,024	7,143	7,351	**84,756**
Total Sales	191,949	182,207	172,826	163,525	163,173	178,827	197,814	198,459	186,250	171,350	165,016	175,705	**2,147,101**
1982													
Residential	76,264	69,128	60,498	54,918	49,092	54,083	65,704	69,906	63,053	52,638	52,136	62,102	**729,522**
Commercial	44,947	43,459	41,710	40,036	40,021	44,206	48,211	49,720	48,068	42,864	40,572	42,584	**526,398**
Industrial	62,939	62,778	64,496	62,723	62,480	63,684	62,617	63,306	59,980	60,830	60,651	58,464	**744,948**
Other	7,929	7,441	7,255	6,836	6,976	6,766	7,035	6,808	7,194	7,084	7,122	7,128	**85,574**
Total Sales	192,079	182,805	173,959	164,512	158,569	168,739	183,567	189,740	178,296	163,416	160,479	170,278	**2,036,439**
1983													
Residential	69,967	65,039	58,912	56,284	49,669	54,138	69,965	78,374	73,197	55,374	53,704	66,326	**750,949**
Commercial	44,019	42,475	41,518	40,679	40,305	45,086	51,013	53,245	52,147	45,517	42,666	45,119	**543,789**
Industrial	57,938	59,032	60,261	60,548	62,729	66,152	66,424	69,611	69,618	68,924	67,544	67,217	**775,998**
Other	7,252	6,919	6,893	6,296	6,216	6,228	6,752	6,885	6,960	6,492	6,560	6,765	**80,218**
Total Sales	179,176	173,465	167,584	163,807	158,919	171,604	194,153	208,115	201,922	176,307	170,474	185,427	**2,150,953**
1984													
Residential	83,300	69,776	63,719	56,373	53,519	59,933	71,020	73,138	67,456	55,965	56,543	66,915	**777,657**
Commercial	49,216	45,840	45,251	43,052	44,150	49,410	53,922	53,603	52,854	48,061	45,938	46,485	**577,782**
Industrial	66,743	66,604	69,687	69,049	70,774	73,014	71,843	74,534	71,275	70,945	68,688	66,607	**839,763**
Other	7,289	6,638	6,906	6,452	6,559	6,714	7,006	7,089	6,780	6,732	6,840	6,910	**81,915**
Total Sales	206,548	188,857	185,563	174,927	175,003	189,071	203,791	208,364	198,365	181,702	178,009	186,917	**2,277,117**
1985													
Residential	77,242	78,011	63,981	56,025	52,842	60,652	70,966	73,693	71,064	57,515	56,794	72,192	**790,977**
Commercial	49,634	49,406	46,629	45,826	47,711	51,521	56,128	57,041	55,960	49,978	47,843	51,289	**608,966**
Industrial	67,219	66,582	67,437	68,445	70,140	70,091	69,760	71,402	70,744	69,158	67,164	66,383	**824,525**
Other	7,270	7,046	6,875	7,049	6,903	6,848	7,135	7,277	7,263	6,903	7,264	7,243	**85,076**
Total Sales	201,364	201,045	184,922	177,345	177,596	189,112	203,989	209,414	205,030	183,554	179,065	197,107	**2,309,543**
1986													
Residential	82,956	70,820	65,576	62,434	54,808	63,843	80,495	80,574	68,644	62,999	59,451	73,131	**825,731**
Commercial	53,376	50,371	48,452	51,138	49,201	56,947	61,130	60,583	57,736	53,289	51,092	53,301	**646,616**
Industrial	65,548	65,116	67,607	74,040	68,083	67,083	68,979	68,934	69,561	69,648	67,256	66,149	**818,004**
Other	7,222	6,856	6,848	7,843	7,261	6,874	7,554	7,304	7,189	7,466	6,836	7,296	**86,549**
Total Sales	209,102	193,162	188,483	195,455	179,356	194,747	218,158	217,394	203,130	193,402	184,634	199,876	**2,376,899**

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Total U.S. Coal
Millions of short tons

	Production	Imports	Exports	Consumption Coke Plants	Consumption Industrial & Misc.	Consumption Trans-portation	Consumption Residential & Commercial	Consumption Total Consumption	Total Stocks
1949	480.6	0.3	32.8	91.4	121.2	70.2	116.5	483.2	49.5
1950	560.4	0.4	29.4	104.0	120.6	63.0	114.6	494.1	77.3
1951	576.3	0.3	62.7	113.7	128.7	56.2	101.5	505.9	81.8
1952	507.4	0.3	52.2	97.8	117.1	39.8	92.3	454.1	82.4
1953	488.2	0.3	36.5	113.1	117.0	29.6	79.2	454.8	86.6
1954	420.8	0.2	33.9	85.6	98.2	18.6	69.1	389.9	75.7
1955	490.8	0.3	54.4	107.7	110.1	17.0	68.4	447.0	71.7
1956	529.8	0.4	73.8	106.3	114.3	13.8	64.2	456.9	81.3
1957	518.0	0.4	80.8	108.4	106.5	9.8	49.0	434.5	83.7
1958	431.6	0.3	52.6	76.8	100.5	4.7	47.9	385.7	78.6
1959	432.7	0.4	39.0	79.6	92.7	3.6	40.8	385.1	78.4
1960	434.3	0.3	38.0	81.4	96.0	3.0	40.9	398.1	75.2
1961	420.4	0.2	36.4	74.2	95.9	0.8	37.3	390.4	73.0
1962	439.0	0.2	41.2	74.7	97.1	0.7	36.5	402.3	71.3
1963	477.2	0.3	51.3	78.1	101.9	0.7	31.5	423.5	71.5
1964	504.2	0.3	50.9	89.2	103.1	0.7	27.2	445.7	76.7
1965	527.0	0.2	52.2	95.3	105.6	0.7	25.7	472.0	78.6
1966	546.8	0.2	50.8	96.4	108.7	0.6	25.6	497.7	75.6
1967	564.9	0.2	51.0	92.8	101.8	0.5	22.1	491.4	94.6
1968	556.7	0.2	52.0	91.3	100.4	0.4	20.0	509.8	87.0
1969	571.0	0.1	57.9	93.4	93.1	0.3	18.9	516.4	81.9
1970	612.7	0.0	72.4	96.5	90.2	0.3	16.1	523.2	93.0
1971	560.9	0.1	58.0	83.2	75.6	0.2	15.2	501.6	91.0
1972	602.5	0.0	57.2	87.7	72.9	0.2	11.7	524.3	116.8
1973	598.6	0.1	53.0	94.1	68.0	0.1	11.1	562.6	104.6
1974	610.0	2.1	61.1	90.2	63.9	0.1	11.4	558.4	96.6
1975	654.6	0.9	66.8	83.6	63.6	0.0	8.4	562.6	128.3
1976	684.9	1.2	60.6	84.7	61.8	0.0	8.9	603.8	134.7
1977	697.2	1.6	54.3	77.7	61.5	0.0	9.0	625.3	157.3
1978	670.2	3.0	41.0	71.4	63.1	0.0	9.5	625.2	145.9
1979	781.1	2.1	66.4	77.4	67.7	0.0	8.4	680.5	202.8
1980	829.7	1.2	92.1	66.7	60.3	0.0	6.5	702.7	228.4
1981	823.8	1.0	112.5	61.0	67.4	0.0	7.4	732.6	209.4
1982	838.1	0.7	106.3	40.9	64.1	0.0	8.2	706.9	232.0
1983	782.1	1.3	77.8	37.0	66.0	0.0	8.4	736.7	202.6
1984	895.9	1.3	81.5	44.0	73.7	0.0	9.1	791.3	231.3
1985	883.6	2.0	92.7	41.1	76.3	0.0	7.8	818.0	203.4
1986	888.2	2.2	85.5	37.1	76.1	0.0	7.9	806.2	210.9

Data from Oil & Gas Journal Energy Database
Source: Bureau of Mines, Energy Information Administration

Total U.S. Nuclear Power Production

	Number of Operable Nuclear Reactors	Capacity of Operable Nuclear Reactors 000 net kilowatts	Nuclear Based Electricity Generation Million kwh	Nuclear Electricity Generation % of total	Nuclear Capacity Factor % usage
1973	39	22,615	83,479	4.5	53.7
1974	48	31,803	113,976	6.1	47.9
1975	54	37,161	172,505	9.0	56.0
1976*	60	43,657	191,104	9.4	54.9
1977	65	46,202	250,883	11.8	63.4
1978	70	50,709	276,403	12.5	64.7
1979	68	49,630	255,155	11.4	58.5
1980	70	51,568	251,116	11.0	56.4
1981	71	55,914	272,674	11.9	58.4
1982	77	59,927	282,773	12.6	56.7
1983	80	63,009	293,677	12.7	54.4
1984	86	69,652	327,634	13.6	56.3
1985	95	79,397	383,691	15.5	58.0
1986	100*	85,241	414,038	16.6	56.9

Data from Oil & Gas Journal Energy Database
Source: Energy Information Administration

Worldwide Primary Energy Consumption
Million barrels of oil equivalent

	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
United States	10,652.7	11,297.7	11,922.2	12,166.3	12,465.4	12,958.0	13,288.6	12,867.1	12,547.5	13,216.7
Canada	988.1	1,056.3	1,119.3	1,192.6	1,233.6	1,317.2	1,399.3	1,448.4	1,429.4	1,515.1
North America	11,640.8	12,354.0	13,041.5	13,358.9	13,699.0	14,275.2	14,687.9	14,315.5	13,976.8	14,731.8
Austria	123.1	132.7	137.1	154.7	153.2	162.0	174.5	172.3	171.5	173.7
Belgium & Luxembourg	274.9	302.7	332.0	357.7	353.3	376.0	372.4	365.8	342.3	365.0
Denmark	105.6	118.0	137.1	149.5	145.1	151.7	144.4	132.7	133.4	140.7
Finland	88.7	96.0	106.3	115.8	118.0	119.5	131.2	126.1	127.5	134.9
France	926.5	974.2	1,073.1	1,155.9	1,193.3	1,256.4	1,364.1	1,349.5	1,254.2	1,342.9
Greece	60.1	62.3	66.0	73.3	87.2	98.2	112.1	109.2	124.6	137.1
Iceland	7.3	8.1	8.1	11.7	11.0	13.2	15.4	13.2	14.7	15.4
Ireland	42.5	49.1	49.8	47.6	49.8	52.0	54.2	54.2	52.0	52.8
Italy	696.4	749.9	810.0	893.5	937.5	971.2	1,010.8	1,003.5	974.2	1,046.0
Netherlands	306.4	343.0	389.2	443.5	471.3	530.0	563.7	521.9	522.6	559.3
Norway	152.5	169.3	170.8	177.4	187.6	197.2	206.0	207.4	211.1	225.0
Portugal	38.1	38.8	44.7	48.4	54.2	60.8	66.0	66.0	64.5	64.5
Spain	247.8	264.6	301.3	324.0	360.6	385.6	423.7	449.3	453.7	494.0
Sweden	232.4	252.2	264.6	309.3	310.8	318.1	337.9	318.9	334.2	359.9
Switzerland	130.5	136.3	141.5	156.9	162.0	157.6	175.2	164.9	172.3	165.7
Turkey	71.8	81.4	89.4	93.1	102.6	112.9	131.9	129.0	144.4	166.4
United Kingdom	1,410.3	1,466.7	1,526.1	1,578.1	1,565.0	1,580.3	1,647.8	1,572.3	1,497.5	1,520.2
West Germany	1,371.4	1,490.2	1,633.9	1,735.0	1,748.2	1,815.6	1,941.7	1,876.5	1,778.3	1,902.9
Western Europe	6,286.2	6,735.5	7,280.9	7,825.5	8,011.0	8,358.4	8,873.0	8,632.5	8,373.1	8,866.4
Australia	294.7	316.7	333.5	354.8	373.8	384.1	397.3	417.8	431.0	458.9
New Zealand	55.7	56.4	57.2	64.5	67.4	71.8	76.2	77.7	75.5	81.4
Australasia	350.4	373.1	390.7	419.3	441.3	455.9	473.5	495.5	506.5	540.2
Japan	1,427.9	1,597.2	1,838.4	2,089.8	2,209.3	2,278.2	2,548.6	2,539.8	2,422.6	2,526.7
Total OECD	19,705.2	21,059.3	22,551.5	23,693.5	24,360.5	25,367.7	26,583.0	25,983.4	25,279.0	26,665.1
Cyprus/Gibraltar/Malta	5.9	6.6	7.3	7.3	8.8	9.5	10.3	9.5	8.1	9.5
Latin America	1,187.5	1,252.7	1,344.3	1,389.8	1,477.0	1,595.7	1,726.9	1,823.7	1,861.8	1,930.7
Middle East	329.9	359.9	433.2	507.2	541.7	576.9	638.4	705.9	693.4	751.3
Africa	568.1	600.3	631.8	669.2	713.2	702.2	719.1	744.7	778.4	862.0
South Asia	579.8	616.5	682.4	673.6	695.6	727.1	757.2	762.3	774.8	839.3
South East Asia	387.8	427.3	455.2	516.8	558.5	609.9	692.7	722.7	729.3	786.5
Other Non-Communist	3,058.8	3,263.3	3,554.3	3,764.0	3,994.9	4,221.3	4,544.6	4,768.9	4,845.9	5,179.4
Total Non-Communist	22,764.0	24,323.1	26,105.8	27,457.4	28,355.4	29,589.0	31,127.6	30,752.3	30,124.8	31,844.5
China	1,329.7	1,726.2	1,874.3	2,123.5	2,359.5	2,454.8	2,657.1	2,844.8	3,008.2	3,206.1
USSR	4,863.5	5,048.2	5,224.8	5,489.4	5,782.6	6,131.5	6,407.2	6,773.7	7,108.6	7,452.4
Others	2,359.5	2,478.3	2,669.6	2,833.0	2,990.6	3,079.3	3,161.4	3,280.2	3,471.5	3,642.3
Total Communist	8,552.6	9,252.7	9,768.7	10,446.0	11,132.8	11,665.7	12,225.7	12,898.6	13,588.4	14,300.8
Total World	31,316.7	33,575.8	35,874.5	37,903.4	39,488.2	41,254.7	43,353.3	43,650.9	43,713.2	46,145.3

Worldwide Primary Energy Consumption
Million barrels of oil equivalent

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
United States	13,505.5	13,876.4	14,031.1	13,501.9	13,204.3	12,665.5	12,599.5	13,251.2	13,216.0	13,199.9
Canada	1,561.3	1,597.2	1,625.8	1,657.3	1,611.1	1,575.2	1,554.0	1,597.9	1,633.1	1,690.3
North America	15,066.8	15,473.6	15,656.9	15,159.2	14,815.4	14,240.7	14,153.5	14,849.1	14,849.1	14,890.2
Austria	175.9	183.3	193.5	194.2	184.7	178.9	177.4	179.6	184.7	188.4
Belgium & Luxembourg	368.0	376.8	374.6	369.4	351.8	337.2	323.3	339.4	352.6	362.1
Denmark	145.9	142.9	147.3	142.9	133.4	122.4	115.8	123.1	134.9	137.8
Finland	142.2	146.6	158.3	158.3	158.3	156.9	156.9	159.1	165.7	167.9
France	1,367.8	1,405.9	1,414.0	1,387.6	1,367.0	1,332.6	1,333.3	1,370.0	1,382.4	1,414.0
Greece	142.2	145.1	127.5	127.5	122.4	123.1	127.5	134.9	139.3	141.5
Iceland	13.2	13.9	13.9	13.9	13.2	11.0	11.0	11.0	11.0	11.7
Ireland	56.4	57.9	65.2	62.3	60.1	60.8	60.1	61.6	62.3	62.3
Italy	1,046.0	1,065.8	1,097.3	1,068.7	1,056.3	1,029.9	1,015.2	1,024.7	1,023.3	1,037.2
Netherlands	551.2	549.8	575.4	541.0	518.2	496.2	475.0	494.8	510.9	527.8
Norway	206.0	217.0	232.4	222.8	217.7	237.5	226.5	227.2	234.6	231.6
Portugal	74.0	77.0	82.8	83.6	84.3	90.9	88.0	92.4	78.4	84.3
Spain	510.9	521.2	552.7	560.7	563.7	554.9	580.5	576.9	571.0	584.9
Sweden	348.2	353.3	365.8	351.8	350.4	338.6	352.6	366.5	392.2	388.5
Switzerland	185.4	182.5	179.6	194.2	193.5	188.4	195.0	189.1	209.6	211.1
Turkey	178.9	169.3	171.5	179.6	189.1	203.0	206.7	222.8	228.0	245.6
United Kingdom	1,553.2	1,549.6	1,626.5	1,493.9	1,437.4	1,421.3	1,423.5	1,413.2	1,481.4	1,519.5
West Germany	1,903.6	1,979.1	2,103.7	1,982.8	1,894.8	1,829.6	1,839.8	1,907.3	1,962.2	2,706.2
Western Europe	8,969.0	9,136.8	9,482.1	9,135.4	8,896.4	8,713.2	8,708.0	8,893.5	9,124.4	10,022.3
Australia	486.0	500.6	527.8	526.3	543.9	549.0	538.8	561.5	578.3	623.8
New Zealand	82.8	82.8	82.1	83.6	84.3	84.3	92.4	96.0	97.5	107.8
Australasia	568.8	583.5	609.9	609.9	628.2	633.3	631.1	657.5	675.8	731.5
Japan	2,551.6	2,598.5	2,711.4	2,635.9	2,591.2	2,499.5	2,509.8	2,709.2	2,722.4	2,726.8
Total OECD	27,156.2	27,792.4	28,460.2	27,540.3	26,931.2	26,086.7	26,002.4	27,109.3	27,371.7	28,370.8
Cyprus/Gibraltar/Malta	10.3	10.3	11.0	11.0	11.0	11.7	11.7	13.2	14.7	15.4
Latin America	2,053.9	2,163.8	2,353.7	2,489.3	2,539.1	2,626.3	2,649.1	2,720.9	2,820.6	2,876.3
Middle East	796.8	825.4	787.2	858.3	924.3	957.3	976.4	1,059.9	1,166.9	1,180.9
Africa	902.3	1,003.5	1,106.1	1,155.9	1,243.2	1,337.0	1,344.3	1,376.6	1,400.8	1,418.4
South Asia	871.5	918.4	929.4	1,019.6	1,101.7	1,181.6	1,265.9	1,337.0	1,445.5	1,513.6
South East Asia	843.7	928.7	1,083.4	1,124.4	1,178.7	1,173.5	1,244.6	1,306.2	1,345.8	1,424.2
Other Non-Communist	5,478.4	5,850.1	6,270.8	6,658.6	6,998.0	7,287.5	7,492.0	7,813.8	8,194.2	8,428.8
Total Non-Communist	32,634.6	33,642.5	34,731.0	34,198.8	33,929.1	33,374.2	33,494.4	34,923.1	35,565.9	36,799.5
China	3,368.9	3,576.3	3,931.8	3,796.9	3,711.2	3,834.3	4,052.8	4,313.7	4,658.9	4,916.2
USSR	7,774.2	8,098.9	8,312.2	8,568.8	8,800.4	9,145.6	9,417.6	9,638.2	10,019.4	10,366.1
Others	3,778.6	3,886.4	3,989.0	4,104.8	3,994.9	4,056.4	4,077.7	4,161.2	4,256.5	4,280.7
Total Communist	14,921.7	15,561.6	16,233.0	16,470.5	16,506.4	17,036.4	17,548.0	18,113.2	18,934.9	19,563.0
Total World	47,556.3	49,204.1	50,964.0	50,669.4	50,435.5	50,410.6	51,042.5	53,036.2	54,500.7	56,362.6

Data from Oil & Gas Journal Energy Database.
Source: British Petroleum

Worldwide Coal Production
Millions of short tons

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Canada	23	23	28	28	32	34	33	40	44	47	50	63	67
Mexico	5	6	6	6	7	7	8	8	8	8	10	10	10
United States	599	610	655	685	697	670	781	830	824	838	782	890	886
North America	**626**	**639**	**688**	**719**	**736**	**711**	**822**	**878**	**876**	**894**	**841**	**964**	**963**
Brazil	2	3	3	4	4	4	8	9	6	7	7	8	8
Colombia	4	3	4	4	4	4	5	6	6	7	6	8	8
Other	2	2	2	2	2	2	2	2	2	2	2	2	2
Central & South America	**8**	**9**	**9**	**10**	**10**	**10**	**16**	**16**	**14**	**16**	**16**	**18**	**18**
Belgium	10	9	8	8	8	7	7	7	7	7	7	7	7
France	31	28	28	28	27	26	23	23	24	22	22	21	19
West Germany	238	244	238	247	229	228	239	239	241	247	236	233	231
Greece	14	16	20	25	26	25	26	26	30	30	33	35	38
Spain	14	15	15	16	19	22	24	32	38	43	44	44	44
Turkey	12	11	12	11	13	15	22	18	19	24	32	38	35
United Kingdom	143	121	142	137	135	136	135	141	138	137	127	55	100
Yugoslavia	36	37	39	41	43	44	46	52	58	60	65	72	72
Other	8	8	7	7	6	6	6	6	6	7	6	5	5
Western Europe	**508**	**488**	**509**	**518**	**506**	**509**	**529**	**543**	**561**	**577**	**571**	**510**	**552**
Albania	1	1	1	1	1	1	1	2	2	2	2	2	2
Bulgaria	30	27	31	28	28	28	31	33	32	35	36	36	36
Czechoslovakia	120	122	127	130	134	136	137	136	137	139	140	143	142
East Germany	272	269	272	273	280	279	282	285	294	304	309	327	343
Hungary	29	28	27	28	28	28	28	28	29	29	28	28	27
Poland	216	222	233	241	250	258	264	254	219	250	258	267	275
Romania	27	30	30	28	30	32	36	39	41	42	39	49	49
USSR	736	755	773	784	796	798	792	790	776	792	789	785	798
Eastern Europe & USSR	**1,431**	**1,454**	**1,494**	**1,513**	**1,546**	**1,560**	**1,571**	**1,566**	**1,529**	**1,593**	**1,601**	**1,635**	**1,671**
South Africa	69	73	77	85	94	100	114	127	144	151	161	161	180
Zimbabwe	3	3	3	3	3	3	4	4	3	3	4	4	3
Other	3	2	3	3	3	3	3	2	2	3	3	3	2
Africa	**75**	**78**	**82**	**91**	**100**	**106**	**121**	**133**	**149**	**157**	**167**	**167**	**185**
Australia	94	94	98	109	111	114	119	116	130	140	146	153	170
China	520	548	570	586	606	681	698	684	683	734	788	870	937
India	89	96	109	116	115	116	118	125	142	148	158	168	171
Japan	25	22	26	20	20	21	19	20	20	19	19	18	18
North Korea	41	43	44	45	45	45	48	50	50	52	50	51	51
South Korea	15	17	19	18	19	20	20	21	22	20	21	23	25
Other	16	16	17	19	19	18	21	21	21	24	23	25	29
Subtotal Other Areas	**800**	**836**	**883**	**913**	**935**	**1,015**	**1,043**	**1,037**	**1,068**	**1,137**	**1,205**	**1,308**	**1,401**
Total World	**3,447**	**3,505**	**3,665**	**3,763**	**3,833**	**3,911**	**4,101**	**4,173**	**4,198**	**4,375**	**4,402**	**4,623**	**4,790**

Data from Oil & Gas Journal Energy Database.
Source: Energy Information Administration

Worldwide Hydroelectric Power Production
Billions of kilowatt hours

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Canada	192.8	210.9	202.4	212.8	220.3	234.0	243.0	251.0	263.2	255.3	263.4	283.4	300.7
Mexico	16.2	16.7	15.1	17.2	19.1	16.2	17.9	16.9	24.6	22.9	20.7	23.6	25.0
United States	275.4	304.2	303.2	286.9	223.6	283.5	283.1	279.2	263.8	312.4	335.3	324.3	284.3
North America	484.5	531.8	520.7	516.9	462.9	533.7	544.0	547.1	551.6	590.6	619.4	631.3	610.0
Argentina	3.0	5.0	5.1	4.9	5.7	7.7	10.5	15.0	14.5	17.4	18.2	19.7	20.4
Brazil	58.3	65.5	73.8	82.4	93.5	102.7	115.1	127.4	129.5	139.7	150.0	163.8	170.0
Chile	5.3	6.0	6.1	6.2	6.4	6.8	6.9	7.3	7.5	8.4	8.8	9.2	9.3
Colombia	8.0	8.9	9.8	10.3	10.5	12.1	13.2	14.5	17.5	18.4	19.4	20.0	20.0
Peru	4.7	5.2	5.4	5.7	6.0	6.1	6.5	7.5	7.1	8.3	8.0	8.6	8.7
Venezuela	6.1	7.1	8.8	10.5	11.8	12.0	13.3	14.5	14.9	15.1	16.8	19.5	20.0
Other	7.3	8.2	8.2	8.8	9.0	10.6	11.3	13.4	14.8	13.5	15.7	21.9	16.4
Central & South America	92.6	105.8	117.2	128.8	143.0	158.0	176.8	199.6	205.8	221.5	237.7	262.7	264.8
Austria	19.0	22.4	23.5	20.3	24.6	24.6	27.8	28.8	30.5	30.6	30.3	29.2	31.8
Finland	10.4	12.5	12.0	9.3	12.0	9.6	10.7	10.0	13.4	13.0	13.4	13.2	12.0
France	47.5	56.8	59.9	48.6	76.1	68.5	67.0	69.2	72.7	71.0	70.7	67.4	63.7
West Germany	15.3	17.6	16.9	13.8	17.3	18.2	18.2	20.6	19.8	19.3	18.6	18.2	17.4
Italy	38.9	39.1	42.4	40.7	52.5	47.1	47.9	48.5	45.3	43.8	43.9	44.9	44.0
Norway	72.2	75.9	76.6	81.2	71.5	80.1	88.1	83.0	92.1	92.0	105.0	105.2	101.8
Spain	29.2	31.0	26.2	22.3	40.3	41.1	46.9	30.5	22.7	27.8	28.6	33.1	33.2
Sweden	59.2	56.6	57.0	54.2	52.8	57.0	60.3	58.7	59.6	55.0	63.7	67.4	70.3
Switzerland	28.8	28.6	34.0	26.6	36.3	32.5	32.3	33.5	36.1	37.0	36.0	30.9	32.7
United Kingdom	4.5	4.8	4.9	5.1	5.2	5.2	5.4	5.1	5.4	5.6	6.4	6.0	6.8
Yugoslavia	16.2	20.5	19.1	20.3	24.1	24.9	26.3	27.9	25.1	23.3	21.6	24.9	26.0
Other	16.4	18.4	18.1	19.1	24.6	27.3	30.5	28.0	27.0	30.5	27.9	32.5	32.1
Western Europe	357.6	384.2	390.5	361.6	437.4	436.3	461.3	443.8	449.6	449.0	466.3	472.7	471.8
Czechoslovakia	2.4	4.0	3.8	3.4	4.3	4.0	4.1	4.7	4.2	3.7	3.8	3.2	3.3
Romania	7.5	8.4	8.6	8.0	9.3	10.5	11.2	12.5	12.6	11.7	9.9	11.0	11.0
USSR	121.1	130.7	124.7	134.4	145.5	168.0	170.3	182.0	184.9	172.9	178.6	200.8	250.0
Other	6.4	7.1	7.5	7.8	8.9	8.5	9.1	10.6	10.5	9.8	10.8	10.8	10.9
Eastern Europe & USSR	137.4	150.2	144.6	153.6	168.0	191.0	194.7	209.8	212.2	198.1	203.1	225.8	275.2
Egypt	5.1	6.1	6.7	8.0	8.9	9.2	9.4	9.5	10.1	10.3	10.4	10.4	10.5
Zaire	3.7	3.4	3.7	4.0	4.0	4.1	4.2	4.3	4.1	4.3	4.4	4.4	4.3
Zambia	4.8	5.7	5.9	6.9	8.5	7.8	8.7	8.8	9.7	10.0	10.0	10.0	10.0
Zimbabwe	5.6	5.2	5.3	4.9	3.5	3.8	3.5	4.0	4.1	3.6	3.7	3.5	3.4
Other	14.3	15.1	15.6	18.6	22.3	23.8	30.2	34.6	24.4	23.1	22.3	17.6	17.4
Africa	33.5	35.5	37.2	42.4	47.2	48.7	56.0	61.2	52.4	51.3	50.8	45.9	45.6
Australia	11.9	13.6	15.1	15.4	13.6	14.5	16.0	16.9	14.7	14.4	12.8	13.4	14.9
China	37.6	42.6	44.5	50.5	47.1	44.2	49.6	57.6	64.9	73.7	85.5	85.9	86.0
India	28.7	27.6	33.0	34.5	37.6	46.7	45.1	46.1	49.1	47.9	49.4	54.2	55.0
Japan	71.0	83.9	85.0	87.5	75.5	73.9	84.2	91.2	89.7	83.2	87.1	72.7	81.1
North Korea	12.4	13.9	16.3	16.8	17.3	19.3	20.3	22.3	22.8	24.8	25.7	26.7	27.0
New Zealand	14.0	14.1	16.7	14.8	14.4	16.1	15.3	16.2	19.3	17.9	19.4	20.0	18.7
Pakistan	4.5	4.4	4.6	5.7	5.4	5.8	8.3	8.6	9.0	9.4	11.3	12.7	13.0
Philippines	2.3	2.0	2.2	2.8	2.2	2.8	2.8	3.5	3.7	4.2	4.0	7.3	7.5
Thailand	1.9	2.4	3.4	3.6	3.2	2.1	3.2	3.7	2.9	3.8	3.6	4.0	5.0
Other	10.6	13.2	14.2	15.4	16.3	18.2	20.0	19.5	23.2	23.1	23.4	25.2	27.2
Subtotal Other Areas	195.0	217.6	235.1	247.1	232.8	243.6	264.8	285.5	299.2	302.4	322.2	322.1	335.5
Total World	1,300.6	1,425.2	1,445.4	1,450.4	1,491.3	1,611.3	1,697.6	1,747.0	1,770.9	1,813.0	1,899.4	1,960.5	2,002.9

Data from Oil & Gas Journal Energy Database
Source: Energy Information Administration

Worldwide Nuclear Electric Power Production
Billions of kilowatt hours

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Argentina	0.0	1.0	2.4	2.4	1.6	2.8	2.6	2.2	2.7	1.8	3.2	4.3	5.5
Brazil	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	2.0	3.2
Canada	17.4	14.6	12.6	17.1	25.4	31.3	36.5	38.4	41.1	40.4	50.4	51.1	59.7
United States	83.5	114.0	172.5	191.1	250.9	276.4	255.2	251.1	272.7	282.8	293.7	327.6	383.7
Western Hemisphere	**100.8**	**129.6**	**187.5**	**210.7**	**277.9**	**310.4**	**294.2**	**291.7**	**316.5**	**325.0**	**347.5**	**385.0**	**452.1**
Belgium	0.0	0.1	6.4	9.5	11.3	11.9	10.8	11.9	12.2	14.8	22.8	26.3	32.8
Finland	0.0	0.0	0.0	0.0	2.5	3.1	6.3	6.6	13.7	15.7	16.6	17.6	17.8
France	11.0	14.0	17.4	14.8	17.0	29.0	37.9	58.2	100.0	103.4	137.0	181.6	212.8
West Germany	11.3	11.4	20.6	23.3	34.0	34.1	40.1	41.5	50.7	60.2	61.5	88.0	119.4
Italy	3.0	3.2	3.6	3.6	3.2	4.2	2.5	2.1	2.6	6.5	5.5	6.5	6.7
Netherlands	1.1	3.1	3.2	3.7	3.5	3.9	3.3	4.0	3.5	3.7	3.4	3.6	3.7
Spain	6.2	6.9	7.2	7.2	6.2	7.3	6.4	4.9	9.0	8.3	10.2	21.9	26.6
Sweden	2.0	1.6	11.4	15.2	18.9	22.6	20.0	25.4	35.8	36.8	38.5	48.7	55.7
Switzerland	5.9	6.7	7.3	7.5	7.7	7.9	11.3	13.6	14.4	14.2	14.8	15.5	21.3
United Kingdom	26.6	32.3	29.0	35.0	36.2	34.8	36.6	35.3	36.9	41.9	47.5	51.4	56.7
Yugoslavia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.4	3.7	4.2	3.8
Western Europe	**67.1**	**79.3**	**106.1**	**119.7**	**140.5**	**158.8**	**175.1**	**203.5**	**279.0**	**308.1**	**361.4**	**465.4**	**557.3**
Bulgaria	0.0	0.9	2.4	4.7	5.6	5.6	5.9	5.9	8.7	10.2	11.7	12.1	11.3
Czechoslovakia	0.2	0.5	0.2	0.4	0.1	0.1	1.8	4.3	4.5	5.5	5.8	6.9	7.0
East Germany	0.3	2.1	2.6	5.0	4.9	6.3	9.3	11.3	11.3	10.3	11.6	12.2	12.3
Hungary	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.4	6.2
USSR	11.1	17.1	19.2	23.8	32.3	42.5	52.1	69.3	64.6	76.0	104.3	134.9	140.0
Eastern Europe & USSR	**11.7**	**20.5**	**24.4**	**33.9**	**42.9**	**54.5**	**69.1**	**90.7**	**89.0**	**102.1**	**135.8**	**168.5**	**176.8**
South Africa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	5.5
Africa	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**4.0**	**5.5**
India	1.8	2.4	2.4	3.0	2.6	2.2	3.0	2.7	2.9	2.0	2.7	3.9	4.3
Japan	9.0	17.2	21.1	35.0	26.7	50.5	58.9	78.7	79.3	99.3	103.6	120.8	144.4
South Korea	0.0	0.0	0.0	0.0	0.1	2.2	3.0	3.3	2.8	3.6	8.5	11.2	15.7
Pakistan	0.4	0.6	0.5	0.5	0.3	0.2	0.0	0.1	0.2	0.1	0.2	0.3	0.2
Taiwan	0.0	0.0	0.0	0.0	0.1	2.5	6.0	7.8	10.1	12.4	18.0	23.4	27.3
Far East & Oceania	**11.2**	**20.1**	**24.0**	**38.5**	**29.8**	**57.6**	**71.0**	**92.6**	**95.3**	**117.4**	**133.1**	**159.3**	**191.9**
Total World	**190.8**	**249.5**	**341.9**	**402.8**	**491.2**	**581.3**	**609.4**	**678.5**	**779.8**	**852.6**	**977.7**	**1,182.2**	**1,383.6**

Data from Oil & Gas Journal Energy Database
Source: Energy Information Administration

Notes

Other

This chapter of the Energy Statistics Sourcebook contains other data which adds considerably to understanding and analysis of the oil, gas and energy industries, but does not fit into specific industry sectors.

This chapter contains detailed data on employment within the petroleum industry. Employment levels are one indicator of industry health. Tracking employment data in the industry helps to define the cycles which have faced the petroleum industry since World War II.

Some of the data in this chapter contribute to an understanding of motor gasoline demand. Motor gasoline is one of the most significant petroleum products. There are few, if any, convenient substitutes for liquid transport fuel, so motor gasoline will continue to be in substantial demand for the foreseeable future. One of the factors which has had an impact on consumption is the improved fuel efficiency of the vehicle fleet. Average miles per gallon have improved 29%, from 13.1 mpg in 1973 to 17.9 mpg in 1985. Because of this improved efficiency the average fuel consumed per car fell from 763 gallons in 1973 to 549 gallons in 1985, a drop of 28%. This improvement has been offset by the increasing size of the vehicle fleet. As the total wealth of the economy improves, so does the size of the overall vehicle fleet.

The data in this chapter of the Energy Statistics Sourcebook can be combined with the data from other chapters to supplement your analysis. The key series have been included to provide a complete package for analysis.

Other

Oil & Gas Employment, By Industry Group, Total U.S., Annual, 418
Oil & Gas Extraction & Refining Employees, Total U.S., Monthly, 419
Average Hourly Earnings, By Industry Group, Total U.S., Annual, 420
Industrial Production Index, Total, Oil & Gas, Petroleum Products, Total U.S., Annual, 421
Motor Vehicle Registration & Fuel Consumption, Total U.S., Annual, 422
Vehicle Miles of Travel & Fuel Consumption, Total U.S., Annual, 423

U.S. Oil & Gas Industry Employment
Thousands

	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
Oil & Gas Extraction	318.1	331.9	340.1	344.0	327.5	329.5	309.2	303.1	298.0	289.2	291.1
Crude Petroleum, Natural Gas, & NGL	184.7	189.0	192.3	194.5	192.4	185.4	178.2	171.3	167.6	163.8	160.4
Oil & Gas Field Services	NA	NA	NA	NA	135.0	144.2	131.1	131.8	130.4	125.4	130.7
Petroleum Refining	203.6	201.3	200.8	198.9	190.4	181.4	177.2	168.4	160.5	153.7	149.6
Pipe Lines Except Natural Gas	NA	NA	25.9	26.5	25.7	24.3	23.1	22.2	21.6	20.7	20.0
Gas Production & Distribution	139.1	140.8	145.3	149.0	151.9	154.1	154.8	155.6	154.6	153.3	153.3
Petroleum & Petroleum Products	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Petroleum Bulk Stations & Terminals	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline Service Stations	NA	NA	NA	NA	439.1	449.1	460.7	464.3	480.2	493.2	507.2

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Oil & Gas Extraction	287.1	281.8	275.8	275.6	279.9	270.1	264.2	267.9	273.9	300.2	328.8
Crude Petroleum, Natural Gas, & NGL	156.6	152.5	149.7	148.1	145.8	144.9	144.8	143.3	139.3	144.6	155.4
Oil & Gas Field Services	130.5	129.2	126.2	127.5	134.1	125.2	119.4	124.5	134.6	155.6	173.5
Petroleum Refining	148.1	148.2	147.9	150.1	144.7	153.7	152.8	151.4	149.2	153.0	152.8
Pipe Lines Except Natural Gas	19.5	18.9	18.7	18.5	17.9	17.6	17.3	16.7	16.8	17.3	17.5
Gas Production & Distribution	153.6	153.2	155.9	158.4	159.5	161.2	158.5	160.7	162.7	163.2	161.9
Petroleum & Petroleum Products	NA	NA	NA	NA	NA	NA	NA	225.2	220.8	216.8	227.5
Petroleum Bulk Stations & Terminals	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline Service Stations	521.9	538.4	565.9	585.8	606.4	613.3	619.0	648.9	651.4	590.4	622.2

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Oil & Gas Extraction	345.7	381.4	429.3	474.2	559.7	692.1	708.3	599.9	606.5	585.2	463.7
Crude Petroleum, Natural Gas, & NGL	161.4	170.1	182.5	198.2	225.9	261.9	273.8	263.0	260.9	256.3	232.7
Oil & Gas Field Services	184.3	211.4	246.7	276.0	333.8	430.2	434.5	336.9	345.6	328.9	230.6
Petroleum Refining	156.6	159.5	164.1	165.2	154.8	172.8	164.2	158.2	151.1	140.1	126.8
Pipe Lines Except Natural Gas	17.7	18.5	19.6	20.1	21.3	21.8	21.3	20.7	19.1	18.8	18.3
Gas Production & Distribution	159.3	158.8	163.5	167.1	168.0	174.0	176.9	173.2	173.2	173.9	165.1
Petroleum & Petroleum Products	232.0	229.7	229.4	225.4	223.9	231.5	222.6	211.3	208.3	205.3	202.3
Petroleum Bulk Stations & Terminals	NA	NA	NA	NA	NA	NA	92.4	85.0	87.1	84.6	83.6
Other	NA	NA	NA	NA	NA	NA	130.2	126.3	121.2	120.8	118.8
Gasoline Service Stations	625.8	628.7	628.0	576.9	560.8	562.2	559.0	556.9	574.7	592.8	612.8

Data from Oil & Gas Journal Energy Database
Source: Bureau of Labor Statistics

U.S. Oil & Gas Extraction Employees
Thousands

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1970	276.7	272.0	268.6	268.8	269.8	275.9	274.4	273.7	266.0	264.0	265.0	266.0	**270.1**
1971	262.2	257.9	256.1	258.3	260.5	268.1	269.5	271.2	266.6	266.1	266.5	266.8	**264.2**
1972	266.7	263.5	264.4	262.4	263.0	271.3	272.1	274.7	271.4	269.5	268.2	267.4	**267.9**
1973	265.9	268.2	266.2	265.6	269.8	278.4	281.1	281.0	276.0	275.8	277.7	281.0	**273.9**
1974	282.5	283.4	285.7	287.5	292.3	301.6	306.9	311.5	308.5	311.1	313.4	318.4	**300.2**
1975	319.6	320.0	319.7	319.0	325.0	331.8	335.9	338.6	330.6	333.2	334.7	338.0	**328.8**
1976	339.4	334.6	335.6	336.4	338.7	347.8	352.2	355.5	350.2	351.0	352.5	354.5	**345.7**
1977	356.9	358.8	361.3	366.1	373.3	388.2	391.6	394.7	393.5	394.5	397.9	400.5	**381.4**
1978	404.1	405.5	413.2	414.8	420.7	436.3	441.1	445.4	440.7	440.8	443.6	445.2	**429.3**
1979	448.1	452.4	453.6	452.3	461.6	477.0	483.6	489.5	487.5	492.0	493.7	499.0	**474.2**
1980	504.0	511.3	517.1	526.2	545.4	567.2	576.0	584.5	584.2	591.9	599.5	609.0	**559.7**
1981	622.7	630.2	639.7	654.1	671.1	698.8	712.8	727.4	727.8	730.4	740.9	748.8	**692.1**
1982	753.7	754.5	754.0	741.6	729.6	727.1	708.8	699.9	674.7	655.8	650.4	649.1	**708.3**
1983	634.6	614.0	600.0	586.3	583.8	587.7	596.3	595.6	591.8	597.4	602.6	609.0	**599.9**
1984	605.1	601.0	596.6	591.0	594.9	606.9	610.6	616.0	612.5	611.4	616.6	615.3	**606.5**
1985	609.7	600.7	592.4	590.7	588.0	588.5	585.0	583.3	575.1	570.7	568.5	569.7	**585.2**
1986	564.1	542.2	514.2	479.9	453.6	446.5	442.0	432.9	421.5	422.7	423.3	421.1	**463.7**

U.S. Petroleum Refining Employees
Thousands

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1970	151.7	152.3	152.6	153.0	153.1	156.4	156.8	156.4	153.9	153.0	152.8	152.5	**153.7**
1971	152.1	151.1	150.9	151.5	152.3	154.4	155.3	154.8	153.5	152.5	152.6	152.6	**152.8**
1972	148.2	151.8	151.3	151.3	151.6	153.9	153.8	153.4	151.0	150.1	150.0	149.9	**151.4**
1973	148.9	145.4	145.9	144.7	146.7	150.5	151.0	152.9	151.9	150.9	150.6	151.1	**149.2**
1974	150.8	150.3	150.3	150.6	153.1	155.5	156.8	155.2	152.8	152.4	154.3	153.9	**153.0**
1975	148.8	144.6	147.4	147.5	151.5	155.0	157.7	156.8	156.1	155.8	156.6	156.0	**152.8**
1976	156.1	155.7	155.3	155.7	155.6	157.9	158.7	158.4	156.7	156.3	156.5	156.8	**156.6**
1977	155.3	152.8	154.6	156.8	158.7	162.0	163.8	162.8	161.4	161.3	162.1	162.6	**159.5**
1978	162.3	163.1	163.6	163.3	163.6	166.7	166.8	165.9	163.9	163.8	163.4	163.2	**164.1**
1979	161.7	161.4	162.2	162.7	163.6	166.2	167.3	167.1	167.3	167.4	167.8	167.4	**165.2**
1980	166.7	112.9	109.4	130.0	160.4	166.0	169.1	169.0	167.7	167.9	168.5	169.5	**154.8**
1981	171.0	170.7	171.6	171.8	173.0	174.7	175.4	175.5	173.2	172.5	172.5	171.6	**172.8**
1982	167.0	165.8	164.8	163.9	163.8	163.7	163.9	163.0	165.0	163.4	163.2	162.9	**164.2**
1983	161.7	160.9	159.9	159.6	159.4	159.8	159.1	157.9	156.3	155.4	154.7	154.1	**158.2**
1984	152.6	151.8	151.9	151.1	151.4	152.0	152.4	152.1	150.3	149.6	149.5	148.5	**151.1**
1985	147.6	146.2	144.9	143.8	142.9	143.4	142.2	140.4	133.2	132.6	132.2	131.8	**140.1**
1986	130.6	129.7	129.2	128.8	128.3	128.5	127.8	126.9	124.4	123.4	122.6	121.3	**126.8**

Data from Oil & Gas Journal Energy Database
Source: Bureau of Labor Statistics

Average Hourly Earnings of U.S. Production Workers
Dollars

	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
Oil & Gas Extraction	NA	NA	NA	NA	2.39	2.43	2.46	2.53	2.60	2.66	2.66
Crude Petroleum, Natural Gas, & NGL	2.15	2.20	2.35	2.47	2.54	2.65	2.69	2.80	2.83	2.92	2.95
Oil & Gas Field Services	NA	NA	NA	NA	2.24	2.25	2.26	2.30	2.41	2.43	2.43
Petroleum Refining	2.38	2.47	2.66	2.77	2.84	2.99	3.02	3.16	3.19	3.32	3.37
Pipe Lines Except Natural Gas	NA	NA	NA	NA	2.93	3.05	3.09	3.27	3.27	3.40	3.46
Gas Production & Distribution	1.90	1.98	2.07	2.18	2.30	2.39	2.47	2.56	2.66	2.77	2.84
Petroleum & Petroleum Products	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gasoline Service Stations	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Oil & Gas Extraction	2.74	2.87	3.03	3.22	3.43	3.57	3.78	4.04	4.33	4.87	5.38
Crude Petroleum, Natural Gas, & NGL	3.03	3.13	3.25	3.39	3.59	3.83	4.15	4.52	4.79	5.30	6.01
Oil & Gas Field Services	2.53	2.70	2.88	3.11	3.33	3.40	3.52	3.73	4.06	4.66	5.07
Petroleum Refining	3.47	3.60	3.77	3.94	4.23	4.49	4.82	5.22	5.58	6.01	6.93
Pipe Lines Except Natural Gas	3.54	3.69	3.85	4.04	4.26	4.57	4.87	5.21	5.53	6.05	6.89
Gas Production & Distribution	2.94	3.06	3.21	3.37	3.57	3.82	4.09	4.40	4.72	5.07	5.50
Petroleum & Petroleum Products	NA	NA	NA	NA	NA	NA	NA	4.18	4.46	4.98	5.46
Gasoline Service Stations	NA	NA	NA	NA	NA	NA	NA	2.54	2.69	2.98	3.16

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Oil & Gas Extraction	5.85	6.37	7.01	7.72	8.59	9.50	10.25	10.65	10.72	11.07	11.59
Crude Petroleum, Natural Gas, & NGL	6.61	7.16	8.05	8.78	9.70	10.78	11.80	12.35	12.76	13.28	13.74
Oil & Gas Field Services	5.49	6.04	6.61	7.34	8.23	9.14	9.76	9.94	9.92	10.14	10.24
Petroleum Refining	7.78	8.48	9.32	10.08	10.94	12.17	13.30	14.33	14.57	15.26	15.32
Pipe Lines Except Natural Gas	7.45	8.14	8.81	9.52	10.50	11.50	12.59	14.06	14.75	15.26	15.14
Gas Production & Distribution	6.09	6.62	7.10	7.65	8.27	9.10	9.74	10.43	11.13	11.76	12.52
Petroleum & Petroleum Products	5.81	6.16	6.84	7.70	8.51	9.04	9.65	10.12	9.92	9.74	9.68
Gasoline Service Stations	3.33	3.44	3.67	4.02	4.47	4.83	5.03	5.19	5.23	5.29	5.43

Data from Oil & Gas Journal Energy Database.
Source: Bureau of Labor Statistics.

Industrial Production Index
1977=100

	Total Index	Oil & Gas Extraction	Petroleum Products
1960	48.7	71.0	54.6
1961	49.0	72.6	56.8
1962	53.1	74.7	59.9
1963	56.3	77.6	62.6
1964	60.1	80.0	64.3
1965	66.1	82.5	65.6
1966	72.0	86.9	68.5
1967	73.5	91.1	71.1
1968	77.6	94.7	74.6
1969	81.2	97.5	76.6
1970	78.5	100.2	80.1
1971	79.6	99.1	82.8
1972	87.3	100.8	86.6
1973	94.4	100.3	91.4
1974	93.0	99.6	88.2
1975	84.9	97.3	87.3
1976	92.6	95.6	92.8
1977	100.0	100.0	100.0
1978	106.5	104.5	102.4
1979	110.7	104.2	101.7
1980	108.6	111.5	94.1
1981	111.0	117.8	89.5
1982	103.1	110.8	84.2
1983	109.2	102.7	83.9
1984	121.4	109.1	87.4
1985	123.8	106.2	86.8
1986	125.1	94.6	92.1

Source: Federal Reserve System

Total U.S. Motor Vehicle Registration and Motor Fuel Consumption

	Motor Vehicle Registration (millions)					Motor Fuel Consumption (000 b/d)		
	Passenger Cars	Motorcycles	Buses	Trucks	Total	Gasoline	Other Fuels	Total
1960	61.7	0.6	0.3	11.9	74.4	3,953	159	4,112
1961	63.4	0.6	0.3	12.3	76.6	4,034	176	4,210
1962	66.1	0.7	0.3	12.8	79.8	4,120	192	4,312
1963	69.0	0.8	0.3	13.4	83.5	4,274	211	4,485
1964	72.0	1.0	0.3	14.0	87.3	4,454	236	4,690
1965	75.3	1.4	0.3	14.8	91.7	4,644	269	4,913
1966	78.1	1.8	0.3	15.5	95.7	4,846	306	5,152
1967	80.4	2.0	0.3	16.2	98.9	5,014	329	5,343
1968	83.6	2.1	0.4	16.9	103.0	5,300	370	5,670
1969	86.9	2.3	0.4	17.9	107.4	5,604	413	6,017
1970	89.2	2.8	0.4	18.8	111.2	5,845	439	6,284
1971	92.7	3.3	0.4	19.9	116.3	6,125	494	6,619
1972	97.1	3.8	0.4	21.3	122.6	6,529	554	7,083
1973	102.0	4.4	0.4	23.2	130.0	6,819	642	7,460
1974	104.9	5.0	0.4	24.6	134.9	6,531	639	7,170
1975	106.7	5.0	0.5	25.8	137.9	6,719	628	7,347
1976	110.4	5.0	0.5	27.7	143.5	7,075	697	7,772
1977	113.7	5.0	0.5	29.6	148.8	7,287	760	8,046
1978	116.6	5.1	0.5	31.7	153.9	7,555	837	8,392
1979	120.2	5.5	0.5	33.3	159.6	7,291	913	8,204
1980	121.7	5.7	0.5	33.6	161.6	6,820	896	7,716
1981	123.5	5.8	0.5	34.5	164.3	6,726	969	7,695
1982	123.7	5.7	0.6	35.3	165.3	6,679	972	7,651
1983	126.7	5.6	0.6	36.5	169.4	6,731	1,043	7,774
1984	127.9	5.5	0.6	38.0	172.0	6,850	1,127	7,977
1985	132.1	5.4	* NA	* 39.6	177.1	7,020	1,158	8,178
1986	135.7	5.4	* NA	* 40.8	181.9	7,258	1,211	8,469

* Buses are included with trucks in 1985 and 1986.

Data from Oil & Gas Journal Energy Database.
Source: Federal Highway Administration

Vehicle Miles of Travel & Fuel Consumption

	Passenger Cars			All Vehicles	
	1,000 Miles per Car	Gallons per Car	Average Miles per Gallon	1,000 Miles per Vehicle	Gallons per Vehicle
1960	9.45	661	14.3	9.65	777
1961	9.47	658	14.4	9.65	776
1962	9.44	657	14.4	9.62	774
1963	9.24	648	14.3	9.65	773
1964	9.29	652	14.3	9.70	778
1965	9.39	667	14.1	9.68	775
1966	9.51	679	14.0	9.70	778
1967	9.53	684	13.9	9.72	786
1968	9.63	698	13.8	9.85	804
1969	9.78	718	13.6	9.97	821
1970	9.98	735	13.6	10.08	830
1971	10.12	746	13.6	10.20	838
1972	10.18	755	13.5	10.37	859
1973	9.99	763	13.1	10.08	851
1974	9.45	704	13.4	9.53	788
1975	9.63	712	13.5	9.64	790
1976	9.76	711	13.7	9.84	807
1977	9.84	706	13.9	9.93	804
1978	10.05	715	14.1	10.06	813
1979	9.48	664	14.3	9.58	765
1980	9.14	603	15.2	9.41	711
1981	9.00	579	15.5	9.48	697
1982	9.53	587	16.3	9.64	686
1983	9.65	578	16.7	9.79	685
1984	9.79	553	17.7	10.01	691
1985	9.83	549	17.9	10.02	685

Data from Oil & Gas Journal Energy Database.
Source: Federal Highway Administration

Notes

Appendix 1

Chronology of Major Events Affecting Oil & Gas Industry

1859
Colonel Edwin Drake discovers oil in Venango County, Pennsylvania at a depth of 69-1/2 ft.

1866
First oilwell drilled in Texas in Nacogdoches County.

April 1897
Nellie Johnstone No. 1 completed to become first commerical oilwell in Oklahoma.

1901
Discovery of Spindletop field in Texas. Drilling mud was used for the first time in the drilling of Spindletop wells.

1901
First oil production in Louisiana from Heywood Brothers No. 1 Jennings in Acadia Parish.

1905
Glenn Pool field discovered near Tulsa, Oklahoma.

1908
First oil production in the Middle East at Masjid-i Suleiman, Iran.

October 1930
No. 3 Daisy Bradford well discovers East Texas field.

1936
First recorded crude oil production in Saudi Arabia.

1938
Mexico nationalizes foreign oil companies.

1946
First recorded crude oil production in Kuwait.

December 1955
U.S. rig count reaches 3,137, a record which would remain unbroken until 1980.

1958
First crude oil production in Alaska.

1960
Organization of Petroleum Exporting Countries (OPEC) is formed.

November 1964
U.K. grants licenses for exploration in the North Sea.

August 1970
West Ekofisk oil field discovered in Norwegian North Sea.

August 1972
Brent oil field discovered in U.K. North Sea.

October 1973
OPEC increases prices by around 70%. Arab members of OPEC cut production and announce embargo on sales to the U.S.

1974
OPEC crude postings increase by up to 130%.

January 1974
Construction permit for Alaskan pipeline issued.

March 1974
Embargo on oil sales to U.S. lifted.

Appendix 1 (Continued)

April 1974
Bertha Rogers No. 1 is completed near Washita, Oklahoma. At 31,441 feet it is the deepest well drilled in the U.S.

November 1974
International Energy Agency is formed.

1975
OPEC increases marker crude postings by 10%.

May 1975
Announcement of discovery of Brae field in U.K. North Sea.

September 1975
IEA member nations agree to increase emergency oil stocks to 70 day's supply from the previous level of 60 day's supply.

December 1975
Authorization of construction and filling of Strategic Petroleum Reserve.

February 1976
Design and implementation of two-tier pricing system for U.S. crude oil.

January 1977
Saudi Arabia and UAE increase prices by 5% while all other OPEC members increase prices by 10%.

August 1977
Start of North Slope production in Alaska.

October 1977
First crude oil imported for the Strategic Petroleum Reserve.

1978
U.S. demand peaks at 18.847 million b/d.

October 1978
Iran's production levels are disrupted by internal political difficulties.

November 1978
Natural Gas Policy Act (NGPA) places controls on natural gas prices and gives Federal Energy Regulatory Commission (FERC) authority over intrastate as well as interstate gas production.

1979
World oil demand peaks at 41.6 million b/d.

May 1979
Gasoline shortages and rationing in the U.S.

November 1979
Official price of Saudi Light crude oil reaches $24/bbl.

April 1980
President Carter signs the "Windfall Profits" tax bill.

May 1980
Saudi Arabia increases price of Arabian Light to $28/bbl. retroactive to April 1st.

June 1980
OPEC meeting establishes a $32/bbl. benchmark price with a maximum price of $37/bbl.

September 1980
Iran-Iraq war disrupts production in both countries.

December 1980
OPEC meeting raises maximum price to $41/bbl. Saudi Arabia raises price for Arabian Light to $32/bbl. retroactive to November 1st.

Appendix 1 (Continued)

January 1981
President Reagan lifts remaining price controls from domestic crude oil.

March 1981
U.S. crude oil wellhead price peaks at $34.70/bbl.

May 1981
OPEC decides to maintain current price levels but most countries agree to cut production by 10% to firm prices which had begun to slide.

October 1981
OPEC set crude oil marker price at $34/bbl. Saudi Arabia put production ceiling of 8.5 million b/d on Aramco crude.

December 1981
U.S. rig count peaks at 4,530 active rigs.

March 1982
OPEC imposes a crude oil production ceiling of 17.5 million b/d in effort to firm falling prices.

December 1982
OPEC agrees to an 18.5 million b/d production ceiling for 1983.

February 1983
OPEC reduces production ceiling to 17.5 million b/d. Marker crude price is reduced to $29/bbl.

October 1984
OPEC cuts production ceiling to 16.0 million b/d. Marker crude remains at $29/bbl.

January 1985
Saudi Light price reduced to $28/bbl.

January 1985
Many U.S. natural gas prices are decontrolled. "Old" gas remains under price controls.

March 1985
U.K. coal miners strike. Strike has serious effect on European energy demand.

December 1985
OPEC changes policy and decides to secure market share rather than support price.

July 1986
Average U.S. crude oil wellhead price bottoms out at $9.39/bbl., the lowest price since November 1978.

July 1986
Posted price for West Texas Intermediate hits a low of $12.25/bbl.

July 1986
U.S. rig count reaches a new post-war low of 663.

September 1986
Prices begin to firm after OPEC agrees to an informal quota system for production.

December 1986
U.S. crude oil production falls to 8.35 million b/d, the lowest figure since 1977.

December 1986
OPEC agrees to a formal quota of 15.8 million b/d for the first half of 1987.

Appendix 2

Glossary of Abbreviations and Terms

AAPG
American Association of Petroleum Geologists

AGA
American Gas Association

AOSC
Association of Oilwell Servicing Contractors

API
American Petroleum Institute

As Completed
A term used to describe recording of well completion data by the American Petroleum Institute. As completed indicates that when a well is reported it is added back into the total for the month in which it was actually completed. Thus, historical data will be more accurate as a measure of wells drilled, but recent time periods will be subject to constant revision as additional wells are reported and placed into the time period (month or year) in which they were actually completed. API started reporting wells on an as completed basis in January 1985. They developed historical information for 1970-1984 on an as completed basis.

As Reported
A term used to describe recording of well completion data by the American Petroleum Institute. As reported indicates that wells are shown as completions in the month they were reported to the API regardless of when the well was actually drilled and completed. The wells were most likely drilled and completed in the prior 4-6 month period. Until January 1985, all data on well completions from the API was on an as reported basis.

Baker Hughes
Baker Hughes Incorporated

Bbl
Barrel. A barrel is equivalent to 42 U.S. gallons.

Bcf
Billion cubic feet

B/d
Barrels per day

BLS
Bureau of Labor Statistics of the Department of Commerce

BOM
Bureau of Mines. The Bureau of Mines was responsible for all oil and gas reporting in the U.S. prior to the formation of the Energy Information Administration.

BP
British Petroleum

BTU
British Thermal Unit, a generalized measure of heating value.

Crude Oil & Condensate
In this publication, crude oil is used to refer to crude oil and condensate unless otherwise noted. Traditionally condensate is separated from the gas at the wellhead and added to the crude stream or accounted for similar to crude oil.

Distillate fuel oil
Light fuel oil products, generally No. 2 and No. 4 fuel oils. May include diesel fuel.

EIA
Energy Information Administration of the Department of Energy

Appendix 2 (Continued)

IADC
International Association of Drilling Contractors

IEA
International Energy Agency. See list of member nations in Appendix 3.

IPAA
Independent Petroleum Association of America

JAS
Joint Association Survey on Drilling Costs, compiled and published by the American Petroleum Institute, the Independent Petroleum Association of America, and the Mid-Continent Oil & Gas Association.

Jet Kerosine
Kerosine type jet fuel.

Jet Naphtha
Naptha type jet fuel. The primary user of jet naphtha is the U.S. military. Commercial jets generally use kerosine type jet fuel.

Kwh
Kilowatt hour

LNG
Liquified natural gas. Natural gas which has been converted to liquid form for transportation and sale.

LPG
Liquified petroleum gases, which generally include butane, propane, isobutane, and ethane. The term LPG & Ethane is sometimes used since ethane statistics used to be reported separately from other LPG products in U.S. government publications.

MAFLA
The area of the Gulf of Mexico offshore from Mississippi, Alabama, and Florida.

Mcf and Mmcf
Thousand cubic feet and million cubic feet

Mill
Million

MMS
Minerals Management Service of the Department of Interior

NGL
Natural gas liquids. The liquid products which are produced with and from natural gas.

North Slope
Refers to the northern area of Alaska. In general, North Slope refers to crude oil produced from Prudhoe Bay, Kuparuk and other developments in that area of northern Alaska.

NSWA
National Stripper Well Association

OECD
Organization for Economic Cooperation and Development. See list of member nations in Appendix 3.

OGJ
Oil & Gas Journal

OAPEC
Organization of Arab Petroleum Exporting Countries

OPEC
Organization of Petroleum Exporting Countries. See list of member nations in Appendix 3.

Appendix 2 (Continued)

OCS
Outer Continental Shelf

PAD
Petroleum Allocation for Defense. A notation which divides the U.S. into 5 districts. Used as geographic reporting entities by the Energy Information Administration and others.

Processing Gain
The increase in total product volume after the refining process. As crude oil is processed into various products, the total volume in terms of barrels is increased (or decreased) depending upon the mix of products produced. In recent years, refinery processing gain has been growing due to the increasing quantities of light products produced.

Quads
Quadrillion BTU's

Residual fuel oil
Heavy fuel oil products, generally No. 5 and No. 6 fuel oils.

SEG
Society of Exploration Geophysicists

SII
Smith International Inc.

SPR
Strategic Petroleum Reserve

Stripper wells
Wells which produced less than 10 bbl. of oil per day

Tcf
Trillion cubic feet

Ton
Metric ton

Total Liquids
A term used to indicate all liquids produced in the oil field including crude oil, condensate, natural gas liquids, other hydrocarbons and alcohol, pentanes and small amounts of natural petroleum products. Does not include water.

Wellhead revenues
The total dollar value of crude oil and natural gas at the wellhead. Wellhead revenues are calculated based on the production volumes of crude oil and natural gas multiplied by their respective average wellhead price.

Appendix 3

Organization of Petroleum Exporting Countries - OPEC

Member Nations (Year of Entry)

Algeria (1967)

Ecuador (1973)

Gabon (1973)

Indonesia (1962)

Iran (1960)

Iraq (1960)

Kuwait (1960)

Libya (1962)

Neutral Zone* (1960)

Nigeria (1971)

Qatar (1961)

Saudi Arabia (1960)

United Arab Emirates (1974)
- Abu Dhabi (1967)
- Dubai
- Ra's al Kaymah
- Sharjah

Venezuela (1960)

---

* Production from the Neutral Zone is shared equally by Saudi Arabia and Kuwait.

Appendix 3 (Continued)

Organization for Economic Cooperation and Development - OECD

Member Nations

Australia

Austria

Belgium

Canada

Denmark

Finland

France

Greece

Iceland

Ireland

Italy

Japan

Luxembourg

Netherlands

New Zealand

Norway

Portugal

Spain

Sweden

Switzerland

Turkey

United Kingdom

United States

West Germany

Yugoslavia

Appendix 3 (Continued)

International Energy Agency - IEA

Member Nations

- Australia
- Austria
- Belgium
- Canada
- Denmark
- Finland
- France
- Greece
- Iceland
- Ireland
- Italy
- Japan
- Luxembourg
- Netherlands
- New Zealand
- Norway
- Portugal
- Spain
- Switzerland
- Turkey
- United Kingdom
- United States
- West Germany

Appendix 4

Approximate Conversion Factors

For crude oil:

From: \ Into:	Tonnes	Long tons	Short tons	Barrels	Kilolitres (cu. metres)	1000 gal. (Imperial)	1000 gal. (U.S.)
				Multiply by			
Tonnes	1	0.984	1.102	7.33	1.16	0.256	0.308
Long tons	1.016	1	1.120	7.45	1.18	0.261	0.313
Short tons	0.907	0.893	1	6.65	1.05	0.233	0.279
Barrels	0.136	0.134	0.150	1	0.159	0.035	0.042
Kilolitres (cubic metres)	0.863	0.849	0.951	6.29	1	0.159	0.035
1000 gallons (Imp.)	3.91	3.83	4.29	28.6	4.55	1	1.201
1000 gallons (U.S.)	3.25	3.19	3.58	23.8	3.79	0.833	1

For crude oil and products:

To convert:	Barrels to Tonnes	Tonnes to Barrels	B/D to T/Y	T/Y to B/D
		Multiply by		
Crude oil	0.136	7.33	49.8	0.0201
Motor spirit	0.118	8.45	43.2	0.0232
Kerosine	0.128	7.80	46.8	0.0214
Gas oil/diesel	0.133	7.50	48.7	0.0205
Fuel oil	0.149	6.70	54.5	0.0184

Weight conversions:

1 metric ton = 1,000 kilograms
1 metric ton = 2204.62 pounds
1 long ton = 2240 pounds
1 short ton = 2000 pounds

Volume:

1 barrel = 42 U.S. gallons
1 cubic foot = 0.0283 cubic metres
1 cubic metre = 35.315 cubic feet

1 barrel of crude oil (equivalent) = 5642 cubic feet of natural gas

Appendix 4 (Continued)

Approximate Heat Content of Fuels

Coal		
Production	Mill BTU/short ton	21.94
Consumption	Mill BTU/short ton	21.49
Non-utility	Mill BTU/short ton	23.61
Electric utility	Mill BTU/short ton	21.11
Imports	Mill BTU/short ton	25.00
Exports	Mill BTU/short ton	26.29
Coal coke		
	Mill BTU/short ton	24.80
Crude oil		
Production	Mill BTU/barrel	5.800
Imports	Mill BTU/barrel	5.903
Exports	Mill BTU/barrel	5.800
Crude oil and petroleum products		
Imports	Mill BTU/barrel	5.808
Exports	Mill BTU/barrel	5.832
Petroleum products (weighted average)		
Consumption	Mill BTU/barrel	5.415
Residential and commercial	Mill BTU/barrel	5.245
Industrial	Mill BTU/barrel	5.318
Transportation	Mill BTU/barrel	5.424
Electric utilities	Mill BTU/barrel	6.257
Imports	Mill BTU/barrel	5.624
Exports	Mill BTU/barrel	5.839
LPG consumption	Mill BTU/barrel	3.640
Natural gas plant liquids		
Production	Mill BTU/barrel	3.797
Natural gas		
Production, dry	BTU/cubic foot	1,033
Production, wet	BTU/cubic foot	1,113
Consumption	BTU/cubic foot	1,033
Non-utility	BTU/cubic foot	1,032
Electric utilities	BTU/cubic foot	1,038
Imports	BTU/cubic foot	1,002
Exports	BTU/cubic foot	1,011
Electricity		
Fossil fuel steam-electric	BTU/kilowatt hour	10,339
Nuclear	BTU/kilowatt hour	10,809
Geothermal	BTU/kilowatt hour	21,263
Electricity consumption	BTU/kilowatt hour	3,412

Appendix 4 (Continued)

Approximate Heat Content of Refined Petroleum Products

	Million BTU per barrel
Asphalt	6.636
Aviation gasoline	5.048
Butane	4.326
Distillate fuel oil	5.825
Ethane	3.082
Isobutane	3.974
Jet fuel - kerosine type	5.670
Jet fuel - naphtha type	5.355
Kerosine	5.670
Lubricants	6.065
Motor gasoline	5.253
Natural gasoline	4.620
Pentanes plus	4.620
Petrochemical feedstocks	
Naphtha 400 deg. F or less	5.248
Other oils over 400 deg. F	5.825
Still gas	6.000
Petroleum coke	6.024
Propane	3.836
Residual fuel oil	6.287
Road oil	6.636
Special naphtha	5.248
Unfinished oils	5.825
Wax	5.537

Index

- **Acreage Under Lease 32-33**
  - Offshore 363
- **Active Rigs -- see Drilling Rigs, Well Servicing Rigs**
- **Blowouts 365**
- **Capital Expenditures 350**
- **Chronology of Events 425-427**
- **Coal**
  - Consumption 393,394-395,407
  - Exports 407
  - Imports 407
  - Price 339,341
  - Production 389,390-391,407
    - International 411
  - Stocks 407
- **Conversion Factors 434-436**
- **Crude Oil**
  - Consumption 256-257, see also Refined Products
  - Exports 216
  - Imports 199,200
    - By Source 210,212
  - Input to Refineries 141,143,164
  - Price 305,306,307,308,315,339
    - By State 309-314
  - Production 80,81,85-89,94-97,98-99
    - By State 85-89,361
    - From Stripper Wells 90,91-92
    - International 94-97,98-99
    - Offshore 360,361,370,372-373,374
  - Refiners' Acquisition Cost 307
  - Reserves 109,110-111,112,120-127,369
  - Spills 364
  - Stocks 179,180
  - Transportation 381
- **Day's Supply 182**
- **Demand, Total 234-235,237,239,240**
- **Distillate Fuel Oil**
  - Demand 234-235,250
    - By Sector 251
    - OECD 264
  - Exports 223
  - Imports 207
  - Price 330,331,333,334-335
    - International 337
  - Production 153
  - Stocks 188
- **Drilling Costs**
  - Index 66-67
  - JAS Survey 60-61,62-63,64-65
  - Per Foot 64-65
  - Per Well 60-61,62-63
- **Drilling Expenditures 60-61,349**
- **Drilling Rigs**
  - Active 16-17,18-21,23,24-25,68-69,70,71
  - Available 26
  - By Depth 24-25
  - By State 18-21,23
  - Census 26
  - International 68-69,70,71
  - Offshore 358
- **Earnings -- see Hourly Earnings**

Index (Continued)

- Electricity
  - Capacity 401
  - Hydroelectric 403,412
  - Nuclear 403,408,413
  - Price 342,343
  - Production 403
  - Sales 404,405-406
- Employment 418,419
- Energy Consumption
  - By Sector 396,397-398,400
  - By State 400
  - By Type 393,394-395
  - Efficiency 388
  - Growth 399
  - International 409-410
- Energy Production
  - By Source 389,390-391
- Federal Offshore Leasing 363
- Footage Drilled -- see Well Completions
- Glossary of Terms 428-430
- Geothermal Power
  - Consumption 393,394-395
  - Production 389,390-391
- Heat Content 435,436
- Home Heating Oil -- see Distillate Fuel Oil
- Hourly Earnings 420
- Hydroelectric Power
  - Consumption 393,394-395,412
  - Production 389,390-391
- Introduction 11
- Jet Kerosine
  - Demand 234-325,247
  - Exports 221
  - Imports 205
  - Price 332
  - Production 151
  - Stocks 186
- Jet Naphtha
  - Demand 234-235,246
  - Exports 220
  - Imports 204
  - Production 150
  - Stocks 185
- Kerosine
  - Demand 234-235,248
    - By Sector 249
  - Exports 222
  - Imports 206
  - Price 330,332
  - Production 152
  - Stocks 187
- Landed Cost of Imports 315
- Liquified Petroleum Gases (& Ethane)
  - Demand 254
    - By Sector 255
  - Exports 225
  - Imports 209
  - Production 155
  - Stocks 190
- LNG 279
- Miles Per Gallon 423

Index (Continued)

Motor Gasoline
  Demand 234-235,241,243,244,245,422
    By Sector 244
    By State 245
  Exports 219
  Imports 203
  Leaded 149,184,243,436,329,333,334-335
  Price 326,327,329,333,334-335
    International 336
  Production 148,149
  Stocks 183,184
  Unleaded 149,184,243,327,329,333
Natural Gas
  Consumption 284-287,289,290-293,294-295
    By Sector 284-287,290-293
    By State 294-295
    International 299
  Exports 278,279,281
  Imports 278,279,280
  Pipeline Mileage 380
  Price 319,320,339,341
    By Sector 324
    By State 322-323
    Of Imports 321
    International 325
  Production 270-271,272,273
    By State 275-277,362
    International 296-297,298,370,375
    Offshore 360,362
  Reserves 116,117-118,119,130-135,369
  Storage 282
Natural Gas Liquids
  Production 82
  Reserves 113,114
Nelson Index
  Construction 161,162-163
  Operating 158,159-160
NGL -- see Natural Gas Liquids
North Sea Production 374
Nuclear
  Capacity 401,408
  Consumption 393,394-395
  Production 389,390-391,408
    International 413
OECD
  Demand 260-261,262,263,264,265
  Exports 226,227
  Imports 214,215
  Members 432
  Prices 325,336,337,338
  Stocks 191,193
Oil Spills 364,365
OPEC
  Exports 228,229,354
  Members 431
  Prices 315,316
  Production 93,94-97,98-99
  Productive Capacity 103,104
  Refining 174
  U.S. Imports From 210,211

Index (Continued)

- **Platform Installations** 366
- **Pipelines** 380,381
  - Construction 382,383
- **Posted Prices**
  - Foreign Crudes 316,317,318
  - West Texas Intermediate 308
- **Producing Oil Wells** 100-101
- **Productive Capacity** 103,104
- **Propane Price** 331
- **Refined Products**
  - Demand
    - By PAD District 240
    - By Sector 237
    - International 256-257,258,260-261,262,266
    - Total 234-235,237,239,240
  - Exports 218
  - Imports 202
    - By Source 211,213
  - OPEC Output 174
  - Refinery Output 147
  - Stocks 181
  - Transportation 381
- **Refiners' Acquisition Cost** 307
- **Refining**
  - Capacity 141,142
    - International 167-173
  - Construction Index 161,162-163
  - Input 141,143,144,164
  - Margins 157
  - OPEC 174
  - Operating Index 158,159-160
  - Output 147-155
  - Processing Gain 145
  - Product Yields 146
  - Utilization 142,165
- **Reinvestment Ratio** 349
- **Reserves**
  - Changes & Additions 109,113,116
  - Crude 109,110-111,112,120-127
  - Gulf of Mexico 369
  - Natural Gas 116,117-118,119,130-135
  - Natural Gas Liquids 113,114
- **Residual Fuel Oil**
  - Demand 234-235,252
    - By Sector 253
    - OECD 265
  - Exports 224
  - Imports 208
  - Price 330,331,333,341
    - International 338
  - Production 154
  - Stocks 189
- **Revenues**
  - Federal Offshore 367
  - Wellhead 349
- **Saudi Light Price** 317,318
- **Seismic Crews**
  - Active 27,28-29,72,73
  - International 72,73
- **Severance & Production Taxes** 352-353

Index (Continued)

Spot Prices 318,333
SPR (Strategic Petroleum Reserve)
  Imports 200
  Stocks 180
Stripper Wells 90,91-92
Table of Contents 3
Table of Figures 9
Tanker Fleet 384
Taxes 349,352-353
Total Liquids 83
Trade Movements of Crude & Products 230
Value of Petroleum Imports 351
Vehicle Registrations 422
Well Completions
  As Completed 36-39,48-52,53-57,58
  By Depth 58
  By State 36-39,44-47
  By Type 35,48-52,53-57
  Exploratory 44-47,53-57
  Footage 40-43,48-52,53-57
  International 74,75
  Offshore 359,376
Wellhead Prices 305,306,309-314,319,320,322-323
Wellhead Revenues 349
Well Permit Applications 31
Wells Drilled -- see Well Completions
Well Servicing Rigs 30
West Texas Intermediate Price 308
Windfall Profits Tax 349
Yields, Refinery Product 146

Oil & Gas Journal Energy Database

The Oil & Gas Journal Energy Database is an on-line database service available through General Electric Information Services Company. The database contains over 35,000 time series of data about the oil and gas and energy industry, a sampling of which are included in this Sourcebook. If you need quick access to timely energy statistics, the Oil & Gas Journal Energy Database is for you.

In addition to on-line services, the Oil & Gas Journal Energy Database provides other services to benefit industry analysts. For those who don't subscribe to the on-line database, we offer research services. If the information you need is in our database but you aren't a subscriber, we can extract the information for you and send it to you with an invoice. If you would like to have updated information on any of the series in this Sourcebook or other energy statistics, call us at (918) 835-3161, ext. 346. We'll let you know whether the information you want is available, the time frame available, the price, and make arrangements to send you the data either in a printout or on diskette. It's very easy.

For analysts who need to monitor the industry on a regular monthly basis, we offer our Key Energy Indicators Diskette. We have selected 150 key monthly series and combined them into a convenient, usable monthly diskette package. The data is stored in Lotus 1-2-3 (version 1A) worksheets for IBM and compatible personal computers. We send out an updated diskette around the 15th of each month, showing the historical data from 1980 and including Oil & Gas Journal forecasts for the most important series. A one-year subscription is available. Call us for more information.

The Oil & Gas Journal produces a number of special statistical reports each year which are now available on diskette. The diskettes are for IBM and compatible personal computers. Most of the diskettes are for Lotus 1-2-3, some also have dBase III versions. These special reports include:

Oil & Gas Journal 400
U.S. Refinery Survey
Worldwide Refinery Survey
U.S. Giant Oil Fields
Worldwide Field Production Survey
Worldwide & U.S. Gas Processing Survey
Worldwide Petroleum Derived Sulfur Survey
Enhanced Oil Recovery Survey
Worldwide Petrochemical Survey
Worldwide Ethylene Capacity Survey
Worldwide Catalyst Compilation

This year, Oil & Gas Journal Energy Database is also making the tables from the 1987 Energy Statistics Sourcebook available on diskettes. Tables can be ordered individually, by the chapter or for the entire publication. For more information, please see page 2.

For more information about diskettes, research, or the on-line services of the Oil & Gas Journal Energy Database, please call (918) 835-3161, ext. 346.

Notes

THE BEST-LAID PLANS

begin with the best resources from PennWell the resources experts refer to year after year.

Oil & Gas Jo
1987 Ed.

Get a new
bestselling
reports ha
their p

Petroleum

992

Export

The Oil Industry
Ask for P4430.

Price

Company
Address
City
State Zip
Country Post Code
Phone ( )
Telex
☐ Check or money order enclosed ☐ Bill My Company
☐ MASTERCARD ☐ VISA ☐ AMERICAN EXPRESS
Account Number (Include all digits)
Expiration Date
Signature

AL, CA, KS, NJ, OK, TX & DC residents add sales tax
U.S. & Canada prepaid orders add $3.50 first item, and 50¢ each additional item
TOTAL ORDER

Signature

FOR FAST SERVICE CALL **918-831-9421**
FAX 831-9497 TELEX 211012
THANK YOU FOR YOUR ORDER